CONSTRUCTION NEWS

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RAILWAYS.

(*denotes this this work is advertised in *Engineering News.*)

ALASKA.—President Taft announced on May 31, according to the New York "Times," that during his administration he would not lend his approval to legislation designed to give Government aid to specific railroad interests in Alaska. Instead, he would favor a general law which would apply to all who complied with its provisions; a law modeled after the policy which for years had been in effect in the Philippine Islands. The announcement came in the form of executive approval of an adverse report made to Congress by Secretary of the Interior Ballinger on a bill which proposed specific aid to the Alaska Great Northern R. R. Co. The statement reads:

"The Secretary of the Interior was asked to give his opinion to the Committee on Territories of the House in respect to House Bill 22,557, "to aid in the construction of a railroad, telegraph and telephone line in the Territory of Alaska, and to secure to the Government of the United States the use of the same for postal, military, and other purposes." The bill proposes to give Government assistance to a particular railroad mentioned therein. To that the Secretary of the Interior replied: "It is believed that any Government aid in the construction of trunk lines of railroad generally in Alaska should be extended only after routes have been recommended by a competent board of Government officers and approved by the President or some competent executive authority, after bids shall have been invited for the construction of lines of railroad over such routes as may have been approved in this manner. This department deems inadvisable the enactment of legislation granting Government aid to any particular railroad corporation as proposed in the bill under consideration."

ALASKA NORTHERN.—Contracts will be let soon by this company, according to press reports, for the construction of 170 miles running from its present interior terminal into the Matanuska coal fields and to a point on the Susitna River, in the direction of the Iditarod gold fields. O. G. Laberes, Pres., Seattle, is quoted as authority for this statement, and he estimates the cost of the proposed extensions at $7,000,000.

ALGOMA CENTRAL & HUDSON BAY.—Contracts have been awarded to the O'BOYLE BROS. CONSTRUCTION CO., Ltd., Sault Ste. Marie, Ont., for work on an extension from Hawk Lake Junction, Ont., north to Hobon, on the Canadian Pacific Ry., 31 miles. The work will be heavy. The work includes 17 trestles. A roundhouse will also be built at Hobon. Noted on April 14.

AMERICAN CENTRAL.—Surveys have not yet been completed by the CENTRAL CONSTRUCTION CO., Mobeetie, Tex., on the section from Miami, Tex., via Mobeetie; Wheeler, Texola, Okla., Mangum and Olustee, to Vernon, Tex., 160 miles. Contracts probably will be let in September or October of this year for building the line. There will be two heavy bridges. W. E. McClintock is Ch. Engr., Mobeetie. Noted on April 28.

BALTIMORE & OHIO.—We are officially advised that contracts were recently awarded as follows on the Cumberland Division: Grafton Yard, third track, West End to Hardman, including open cut at Murray Tunnel; third track, Deer Park to Mountain Lake Park; third track, Swanton to Altamount and Frankville, to CHAS. A. SIMS & CO., Harrison Bldg., Philadelphia, Pa.

Third track, Terra Alta to Rodemer, and open cut at McGuires Tuunel, to ALLEN & KEFAUVER, Equitable Bldg., Baltimore, Md.

Third track, Sir Johns Run to Great Cacapon, to CHAS. F. KING & CO., Land Title Bldg., Philadelphia, Pa.

Revision of line and grade at 58 Cut, to F. H. CLEMENT & CO., Land Title Bldg., Philadelphia, Pa.

Open cut for Rodemer Tunnel, to JAMES F. McCABE CO., Equitable Bldg., Baltimore, Md.

Making open cut at Everett's tunnel, to EYRE-SHOEMAKER, Inc., 900 Arcade Bldg., Philadelphia, Pa.

In the Pittsburg district: Bakerstown tunnel open cut, to ALLEN & KEFAUVER, Equitable Bldg., Baltimore, Md.; third track, Philson to Manila, to EYRE-SHOEMAKER, Inc., 900 Arcade Bldg., Philadelphia, Pa. A. W. Thompson is Ch. Engr., Baltimore.

CHICAGO & WISCONSIN VALLEY.—Incorporation papers have been filed at Madison, Wis,, by this company to build a railroad from Merrill to Janesville, Wis., 180 miles, through Rock Dane, Columbia, Adams, Wood, Green, Marquette, Portage, Marathon and Lincoln Counties. Capital stock, $40,000. The directors are A. J. Behymer, Elwood, Ind.; J. W. Purves, Friendship, Wis.; J. E. Jones, Portage, Wis.; A. D. Barnes, Waupaca, Wis.; F. J. Kimball, Briggsville, Wis.; R. H. Williams, Springfield, Ill.; L. D. Freeland, Portage, Wis.; E. J. Baskerville, Madison, Wis.; James R. MacMillan, Lodi, Wis.; Frank M. Zimmerman, Aurora, Ill.; Thomas W. Potts, Chicago, Ill. Principal office will be at Madison.

DENVER & RIO GRANDE.—We are officially informed that contracts have not yet been awarded for double-track between Pueblo and Walsenburg, Colo., 48 miles. Company has issued invitations asking for proposals to perform the grading and furnish labor for concrete on this double track. The approximate quantities are: Borrowed embankment, 4,000,000 cu. yds.; excavation, 2,000,000 cu. yds.; concrete masonry, 45,000 cu. yds. Bids will be opened on June 20. This work is to be done under the joint supervision of the Colorado Southern and Denver & Rio Grande R. R. companies. Noted on June 2.

DURANGO CENTRAL. — It is reported that financial arrangements have been completed in Germany for the immediate construction of an extension of the Durango Central R. R., from Descubridora to Tepehuanes, where it will connect with the Mexican International line of the National Railways of Mexico. The survey for the proposed extension has already been made and when it is formally approved by the Federal Government the contract for the construction work will be let. H. L. Aldrich is Gen. Supt., Descubridora, Mex.

FOREST CITY, FERTILE & MASON CITY.—Incorporated in South Dakota, with $400,000 capital, and offices at Watertown, S. Dak., and at Forest City, Iowa. The company was organized to build from Forest City, Iowa, east through the counties of Winenbago, Hancock, Worth and Cerro Gordo, to Fertile, thence southeasterly to Mason City, 40 miles. The incorporators include: P. O. Koto, C. N. Christopherson and C. S. Isaacs, of Forest City; A. M. Sheimo, of Baldwin, Wis.; A. L. Sheirn and M. J. Hawley, of Watertown, S. Dak.

GILPIN & CLEAR CREEK.—The Consolidated Construction Co. has been incorporated in Denver, Colo., with $1,000,000 capital to take over the Boston-Colorado Power Co. and the Park Irrigation & Water Co. It has absorbed the Gilpin & Clear Creek District R. R., and will at once begin the completion of that line into the Gilpin and Clear Creek mining district. The new road, which is to be broad gage, is to start from Pactolus, Colo., on the Denver, Northwestern & Pacific Ry., and run to Black Hawk and other towns in that vicinity. The companies which were absorbed by the Consolidated Construction Co. have sold $4,000,000 worth of bonds in Europe and $2,400,000 through Hornblower & Weeks, 42 Broadway, New York, it is stated, and is ready to begin construction work on a new power and irrigation system.

The proposed railroad was promoted by R. A. Hall, and is about one-third completed. The company, under its new management, has arranged for the sale of $1,250,000 bonds with which to complete the work. The officers state that the road will be in operation this Fall. It will compete with the Colorado & Southern for the ore tonnage out of the Clear Creek district and will bring this business in over the D., N. & P. Ry. The officers of the new railroad company are T. E. Bartlett, of the Continental Trust Co., Pres.; J. L. Seymour, Secy., and C. S. Ripley, Vice-Pres., Denver.

GUATEMALA RY.—See Pan-American R. R.

PAN-AMERICAN R. R.—The construction of the Salvador extension of the Guatemala Ry. is reported by William Heimke, U. S. Minister, San Salvador, to have begun on April 15. It will extend from La Union, 38 miles to San Miguel and is to be finished by Jan. 1, 1911, although the Salvadorean concession to Rene Keilhauer, representing Minor C. Keith, does not require completion until Oct. 15, 1912. After construction of the La Union to San Miguel branch the concessionaire is obliged to build at least 10 kilometers (6.2 miles) of road a year until the completion of the line to the Guatemalan frontier, about 250 miles from San Miguel, the Salvadorean Government having agreed to pay $7,000 gold for every kilometer of road constructed. When this entire line is completed from a point on the Guatemalan frontier to San Miguel, it will be the link in Salvador of the Pan-American R. R., of which C. L. Daniel is Gen. Agent, at Gamboa, Oax., Mex.

PENNSYLVANIA R. R.—Increased passenger terminal facilities between Broad St. Station and West Philadelphia are being provided by the Pennsylvania R. R. Co., according to press reports, at a cost of about $700,000. The work is planned to be completed before next Fall. Across the Schuylkill River the south bridge, used by main line and New York division trains, will be widened to carry four tracks. This will be done by adding a track on each side of the present double-track bridge. The river piers will be widened to carry the additional structure. East of the Schuylkill River the elevated system is to be expanded and rearranged in certain particulars, the purpose being to shorten the time now required to turn locomotives and to make over local trains. At present all locomotives have to go to the West Philadelphia yard to be turned.

PINE BLUFF & NORTHERN.—This company has been granted a charter in Arkansas to build from Pine Bluff, Ark., north to Searcy, 80 miles. The work will be light, being mostly dirt work. The company expects to begin the construction work soon. Walter J. Miller is Pres., Lamar, Mo.; F. C. Kyte, Carlisle, Ark., is Engr. Company is capitalized at $1,600,000. It is the intention of the company to build its road from Pine Bluff in a northeasterly direction through the Counties of Jefferson, Lonoke, Prairie and White, its northeastern terminus being Searcy, where it will connect with the Missouri & North Arkansas R. R., giving Pine Bluff the shortest and most direct route to Kansas City. It will also give Pine Bluff connection with the Rock Island. The road will cross the Altheimer branch of the Cotton Belt Route at Tucker, 12 miles north of Altheimer, the Iron Mountain two miles north of Garner and the Rock Island at McCreanor, six miles east of Lonoke. It will traverse rice lands and rich cotton lands in a part of Jefferson and Lonoke Counties and will go through the timber belt in the Bayou Meto bottoms. It is the intention of the company to absorb the Meto Valley Road, which was recently built and extends from McCreanor south a distance of 10 miles south through the Lonoke rice district. When the road is completed from Pine Bluff to Searcy the company proposes to build a branch line from a point 15 miles north of McCreanor to Little Rock, a distance of 25 miles, giving Little Rock connection with the Mississippi & North Arkansas R. R. at Searcy.

SAN DIEGO & ARIZONA.—Contract for the third section of grading has been awarded to ROBT. SHERER & CO., Los Angeles, Cal. The contract is for a 10-kilometer section in Mexico. Noted on Dec. 23, '09.

SMITHVILLE & ARANSAS PASS RY.—See "Texas."

STATE LINE & SOUTHERN.—Chartered in West Virginia to build a railroad from the Pennsylvania-West Virginia State line along the Monongahela River to Rivesville, Marion County, the terminus of the Buchanan & Northern R. R., which in turn connects with the Little Kanawaha R. R. to the Ohio River at Parkersburg. The incorporators of the new company are Samuel D. Brady, H. M. Schrader and R. E. Kerr, of Parkersburg, W. Va.; B. M. Laughead, of Morgantown, W. Va.; Charles Morris, of Fairmont, W. Va.

TEXAS.—James H. Collins, Engr. 88 La Salle St., Chicago, advises us that he has arranged for the finances to build a steam railway from Smithville, Tex., to Aransas Pass, Tex. Engineers will begin field work at once and construction will follow as soon as the engineering work has progressed sufficiently. It is stated that the railway will be known as the Smithville & Aransas Pass Ry.

WAYCROSS & SOUTHERN.—This company has been chartered in Georgia to build a line from Waycross, Ga., southward to timber lands. Among the incorporators are Jas. W. Oakford, of Scranton, Pa.; John M. Hopkins, of Waycross; Bryan Cumming, of Augusta, Ga., and Charles L. Hebbard, of Thomasville, Ga.

WESTERN MARYLAND.—The CARTER CONSTRUCTION CO., Pittsburg, has sublet sections of construction work for the W. M. R. R. Co. to the sub-contractors named below: Beginning at Cumberland, the eastern end of the connecting link; Mile 1 to 21, JOHN B. CARTER CO., Indianapolis, Ind.; mile 29 to 32, HEAD & RIGHT, Chicago, Ill.; mile 33 to 35, FISHER & CAROZZA, Baltimore, Md.; mile 36 to 43, CONESTOGA CONSTRUCTION CO., Pittsburg, Pa.; mile 44 to 46, RYAN & MANNINGTON, Springfield, Mass.; mile 47 to 50, PATTON & LAPSLEY, address not given; mile 54 to 58, AMERICAN ENGINEERING CO., Indianapolis, Ind.; mile 62 to 67, FOLEY BROS., Pittsburg, Pa.; mile 69 to 71, HANDON & McCOURT CO., Akron, Ohio; mile part of 71 to 77, F. W. STANLEY CONSTRUCTION CO., Conneaut, Ohio; mile 78 to 80, W. M. BATES, Memphis, Tenn.; mile 81 to 83, R. GALIARDI, Connellsville, Pa.; mile 84 to 87, ROBERT WILL CONSTRUCTION CO., New York, N. Y. The sections not named have not yet been made public by the Construction Co. A. W. Jones is Ch. Engr. for the Carter Construction Co., with headquarters at Meyersdale, Pa. Noted last week.

ELECTRIC RAILWAYS.

PORTLAND, ME.—The Railroad Commissioners of Maine have received a petition from the Portland, Gray & Lewiston Railroad Co., asking for an extension of time for the construction of its line. By the terms of its charter it must expend 10% of its capital stock in actual construction work before July 12, 1910. It asks that this limit be set forward three years. Its capital stock was first $160,000 and this has been increased to $1,000,000. Work upon the road was begun this spring and is now actively under way. Noted on May 5.

BOSTON, MASS.—The ownership of a trolley line in Massachusetts, a privilege which the New York, New Haven & Hartford R. R. Co. has been seeking for the last two years, is at last assured to the company, according to the New York "Tribune." The House on June 6 by a vote of 137 to 76, passed a bill permitting the New Haven company to purchase and operate the Berkshire Street Ry., in Berkshire County. The bill, which stipulated that certain short extensions of the Berkshire company's line shall be made, has already passed the Senate. Despite this action, the House again registered its opposition to New Haven Railway control of trolley lines in Connecticut by reconsidering action taken last week and killing a bill to permit the Worcester & Southbridge Street Ry. to purchase such a line. A bill granting a similar privilege to the Springfield St. Ry. Co. was defeated last week. Both of these companies are indirectly owned by the New Haven company.

NYACK, N. Y.—A. C. Miller, Second Vice-Pres. of the Rockland R. R. Co., according to press reports, at a recent meeting of the Nyack Board of Trustees "made a definite announcement that the actual work of construction on the projected trolley road would begin at the corner of Broadway and Main St. within 30 days." Right-of-way is being secured. As previously noted, this line will extend from Tenaffy, N. J., northerly through Creskill, Demarest, Closter, Norwood and Northvale, to Tappan, N. Y., thence through Sparkhill, Piermont, Grand View, South Nyack, Nyack, New City, Congers, Haverstraw and West Haverstraw to Stony Point, about 34 miles with a branch from Nyack westerly via Nanuet and Spring Valley to Suffern, 14 miles. The estimated cost of the line is $2,500,000. Surveys have been made for a line east of the Sparkill-Tenafly section from Sparkill, N. Y., south to Fort Lee, N. J., the construction of which will be taken up at a later date. The New York Public Service Commission, Second District, has granted permission to the company to build in Rockland County, and similar action has been taken by the Board of Supervisors of Rockland County. B. A. Hegeman, Jr., is Pres.; W. O. Jacquette, Vice-Pres.; A. C. Miller, Second Vice-Pres. and Gen. Mgr., 165 Broadway; S. S. Delano, Treas.; C. J. Hardy, Secy. and Counsel. W. H. Coverdale is Ch. Engr., 66 Broadway, New York. Noted on Dec. 2, '09.

NORTH TONAWANDA, N. Y.—James F. Simmons, Congressman, Niagara Falls, N. Y., has made application for right-of-way in crossing streets for a new trolley line between Buffalo and Niagara Falls. The new line is to be called the Frontier Electric Ry. and will operate an express service between the points named. The line is to be operated over the right-of-way of the old Buffalo, Thousand Islands & Portland Ry. Co., which is said to have a right-of-way over the entire route, except for about 2,500 ft. The right-of-way in Tonawanda has all been secured. Under the ordinances of this city, franchises such as Mr. Simmons has requested, cannot be granted for two weeks after application and with advertised notice. The Council set June 28 as the date for the hearing and action on the application. The new line will parallel the Erie R. R. between Tonawanda and Main St., Buffalo.

ALTOONA, PA.—The purchasers of the Altoona & Beech Creek R. R., a line running from Altoona to Daugherty's Mines, 15 miles, have effected an organization by the election of these officers: Pres., Andrew Kipple, Sr.; Vice-Pres., W. S. Lee; Secy., Charles W. Moore; Treas., W. J. Heinsling. Directors, C. H. Kipple, L. W. Flanagan, Charles H. Kelly, W. H. Aiken and H. A. Davis. The name was changed to the Altoona, Juniata & Northern Ry. Co. Capital, $100,000. The stockhollers propose to electrify the road and extend it into the city limits.

JOHNSTOWN, PA.—The Southern Cambria Ry. Co., from present plans, will not let a contract for the construction of the extension from Mineral Point to Ebensburg. P. J. Little, Pres., it is said, will direct a force of men working down the mountain from Ebensburg and F. R. Newman, Gen. Mgr., will start his force at Mineral Point and continue operations to meet the other party.

LLANERCH, PA.—The Ardmore and Llanerch branch of the Philadelphia & Westchester Traction Co. is to be double-tracked from Llanerch to Ardmore. The Board of Supervisors of Haverford Township, of which John R. Valentine is Pres., has granted the railway company permission to lay its tracks at grade at Haverford road and Mill road, in Haverford Township, near Ardmore. W. A. Hall is Ch. Engr., at Llanerch.

JOHNSTOWN, PA.—The Johnstown Passenger Ry. Co., has been granted a franchise to build an extension to Southmont. G. Nelson Smith is Ch. Engr.

BURNSVILLE, W. VA.—The Burnsville, Glenville & Parkersburg Traction Co. has been chartered in West Virginia to build a line 18 miles long from Burnsville to Glenville, W. Va. The incorporators and directors are: Pres., Dr. M. J. Bartlett, of Clarksburg; Vice-Pres., Henry Spies; Secy. and Treas., C. E. Hiner; L. W. Bartlett, Gen. Mgr., all of Buckhannon, W. Va. James B. Supler, of Clarksburg, is Asst. Gen. Mgr.

MORGANTOWN, W. VA.—The Sabraton Ry. Co. will soon let contracts for the construction of its Dellslow extension and the Lake Erie extension, it is stated. G. Gilmour Sturgiss, Morgantown, is Gen. Mgr. and Pur. Agt. Noted on April 14.

CHARLOTTE, N. C.—Paul Chatham, L. L. Caudle, J. L. DeLaney, J. H. McClintock, Heriot Clarkson, McD. Watkins, J. S. Myers, D. A. Johnson, H. C. Dotzer and others, of Charlotte, will build a trolley line at East Fourth St. through Colonial Heights to the new Mecklenburg Country Club. The line will extend from the Country Club across the lands of Piedmont Park to Elizabeth Heights. Estimated cost, $15,000.

TITUSVILLE, GA.—W. J. Smith, Pres. of the Titusville Central R. R. Co., states that this company will acquire the property of the Titusville Electric Traction Co. with a total mileage of 16 miles, put in an overhead crossing at Hydetown, build and equip the line from Tryonville to Cambridge Springs, making a total mileage from Pleasantville to Cambridge Springs of 33 miles. It will also build a line from Titusville to Oil City, a distance of 17 miles over a grade already built and abandoned years ago by the Pennsylvania R. R. Co. It will also build a line from Titusville to Corry, a distance of 22 miles, making a total mileage of 72 miles. Noted on Dec. 16, '09.

ALLIANCE, OHIO.—The Alliance & Akron Elc. Ry. Co. has effected organization and Charles Keith has been elected Pres., and Arthur Wright, Secy. Company plans to build a 26-mile line between the cities named. Noted on May 26.

CINCINNATI, OHIO.—The Cincinnati Union Depot & Terminal Co., Cincinnati, has asked the City Council for a franchise for the use of certain streets and crossings in connection with the construction of the terminal which the company plans to build. Chas. Hansel, 43 Exchange Pl., New York, is Engr. Noted in detail under Buildings on May 19.

MINSTER, OHIO.—The Minster & Loramie Ry. Co., recently incorporated to build a railway from Loramie to Minster, has completed its organization by the election of the following officers: John Raterman, Pres.; B. Wuebker, Vice-Pres.; Jos. Willman, Secy., and Julius Boesel, Treas. It will connect with the Minster branch of the Western Ohio R. R. at Minster. Noted on Feb. 17. (See Toledo, Ohio, item).

TOLEDO, OHIO.—The Western Ohio R. R. Co. has been incorporated. The incorporation is for $10,000, which will be increased to $1,000,000, it is stated, within a few days. The line is to run between Toledo and Dayton, a branch is to run from Wapakoneta to Celina and another from St. Marys to Loramie. The incorporators are Frank H. Ginn, Albert E. Green, Glenn M. Cummings, Grover Higgins and John M. Garfield. The papers were sworn to before County Clerk Charles P. Sales, in Cleveland. (See Minster, Ohio, item.)

INDIANAPOLIS, IND.—The City Council has ratified a franchise granted by the Board of Public Works to the Indianapolis, New Castle & Toledo Elec. Ry. to build a railway in Indianapolis. Paul H. White, 30 Union Trust Bldg., Indianapolis, is Ch. Engr.

OBLONG, ILL.—The Oil Belt Traction Co. is reported to have awarded the contract to McCANN BROS., Murphysboro, Ill., for building its proposed 12-mile railway between Bridgeport and Oblong. N. L. Upson is Mgr. Noted on Sept. 2, '09.

AUSTIN, TEX.—The City Council has called an election to be held June 22 to pass on the question of granting a franchise to C. V. Birkhead, of San Antonio, and associates for the construction of a system of electric street railway there. The franchise will cover all the streets not occupied by the Austin Electric Railway Co. Noted on May 5.

OKLAHOMA CITY, OKLA.—Plans are under way by the Oklahoma City & Fort Smith Traction Co., recently chartered, for commencing construction on its proposed line from Oklahoma City via Shawnee and Muskogee to Fort Smith, about 200 miles. G. S. Wood is Secy., 237-238 Lee Bldg., Oklahoma City, Okla. Noted on Feb. 3.

STILLWATER, OKLA.—The Oklahoma Public Service & Interurban Co. has let contracts to DANIEL SWEENY & CO. for grading, and to M. B. RYAN for bridge construction and culverts on its 14-mile railway to connect Stillwater, Yale, Morrison and Perkins, it is stated. Headquarters, Stillwater. L. J. Lampke, Pres.; Claude Powell, Vice-Pres.; F. A. Hoffman, Purchasing Agent; H. A. Campbell, Asst. Engr., and R. A. Sturgeon Ch. Engr.

VANCOUVER, WASH.—The Vancouver, Camas & Washougal Traction Co. has applied for a charter in Washington to build an electric railway from Vancouver to Washougal. Capital stock, $100,000. Incorporators: H. C. Phillips, W. D. Smith and E. M. Rands.

SAN RAFAEL, CAL.—A campaign has been launched by a number of capitalists and business men of Novato, San Rafael, San Anselmo, Kentfield, Larkspur and Corte Madera to raise $125,000 to begin the construction of a railway from Corte Madera through Ross Valley towns to Novato. W. L. Courtright, of San Rafael, is the promoter. Noted on May 19.

SAN FRANCISCO, CAL.—Articles of incorporation have been filed by the San Francisco & Transbay Ry. Co., with $1,500,000 capital stock, of which $70,000 has been subscribed. According to the articles, the new company plans to build a line of railroad from San Francisco to Niles, crossing the lower bay near Dumbarton Point. From San Francisco the road will be laid down the peninsula through San Mateo and Redwood City to the bay shore. Two branch lines are called for in the articles, one from Dumbarton Point to Warm Springs, and the other from Redwood City to Woodside. The lines will aggregate about 70 miles in length. The directors of the corporation are: E. Schnutenhaus, J. Comerford, A. Mulverhill, F. Block. H. H. McCloskey, Crocker Bldg., is Attorney.

PACHUCA, MEX.—An official order has been issued suspending constructing work on the electric railway that the Pachuca & Real Del Monte Mining Co. was building to connect the Rosario mine with the Loreto hacienda. This action was taken on complaint of the Pachuca Light & Power Co., which claimed that the construction of the road was an infringement on its rights.

FOREIGN.—A report has been received from an American embassy in an Asiatic country inclosing four copies of the conditions proposed by the local Ministry of Public Works in regard to the construction of electric street-car lines over a considerable portion of the suburban districts of a certain city. Bids may be submitted until Nov. 10, 1910. Copy of the conditions can be obtained by interested firms upon application to the Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C. In applying for information refer to file No. 5059.

LIGHT AND POWER PLANTS.

(** denotes that this work is advertised in Engineering News.*)

FORT McKINLEY (Portland post-office), ME.—The following bids were received on June 2 for constructing and remodeling the electric lighting system at Fort McKinley: John R. Bowker, 7 Doane St., Boston, Mass., $4,962; Lord Electric Co., 213 West 40th St., New York, $4,698; Whitall Electric Co., Westerly, R. I., $8,890; A. D. Granger Co., 90 West St., New York, $6,368; Cowden & DeYoung, Inc., 45 East 42d St., New York, $5,181.

PITTSFIELD, MASS.—The Committee on Lights has voted to recommend that a 5-year contract be made with the Pittsfield Electric Co., for lighting the streets of the city. Fred Treat is Ch. Engr.

PROVIDENCE, R. I.—The Narragansett Electric Lighting Co., has received permission to erect a substation on Bough St., to be 30 × 40 ft., two stories high.

THOMPSONVILLE, CONN.—According to the Springfield "Republican" the plan for the development of power and the improvement of navigation of the Connecticut River by the Northern Connecticut Light & Power Co., which has bought the necessary property and rights from the Connecticut River Co., which owns the present dam at Enfield and the 5-mile canal from there to Windsor Locks, involves the following work:

Removal of the present dam of the Connecticut River Co., at Enfield; abandonment of the northern three miles of the present canal; retention and use of the present canal without change throughout the southern two miles of its course through Windsor Locks; a new dam to be built in two sections near the southern end of Kings Island; a spillway dam straight across that part of the river east of Kings Island from a point on the west side of the island about one-third of the way from the southern to the northern end; a long dam from the southern end of Kings Island, extending down the river parallel with the flow of the current for about 1,000 ft.; a lock about 300 ft. long and 40 ft. wide at the southern end of the long dam, about 400 ft. north of the railroad bridge between Windsor Locks and Warehouse Point, about 400 ft. from the west bank and about 800 ft. from the east bank of the river; a power-house between this lock and the west bank of the river; a channel seven feet deep and about 300 ft. in width to be excavated from the new lock to a point about 1000 ft. south of the highway bridge between Windsor Locks and Warehouse Point, and about 1000 ft. north of the locks of the Connecticut River Co., this channel to connect with the channel from Hartford north to that point, as contemplated by the United States Government, and for which an appropriation of $1,015,600 has been recommended; a division wall separating the channel in the west part of the river from the rest of the river, in which would flow the water coming over the spillway dam, this division wall to extend from the lock to a point about 150 ft. north of the highway bridge between Windsor Locks and Warehouse Point, a total distance of about 1 1/5 miles.

Estimated cost, about $4,500,000. The Northern Connecticut Co. offers to meet the expense of this entire plan, and to turn over to the United States Government without cost the completed lock to be maintained by the Government, and to be always free from tolls. An estimate of the power which could be obtained from the water which will become available when the plan is carried out is 25,000 HP., a minimum of 20,000 HP. having been the estimate of the army engineers. B. H. Smith is Ch. Engr., Windsor Locks, Conn.

NEW YORK, N. Y.—Bids are asked by C. B. T. Sayder, Supt. School Bldgs., until 3 p. m., June 27, for alterations and repairs to heating and ventilating apparatus in Public Schools 10, 15, 32, 60, 77, 82, 100 and 139, also in Erasmus Hall High School and Manual Training High School, Boro. Brooklyn. For repairs, alterations and additions to the electric equipment in Public Schools 106 and 108, Boro. Brooklyn. For repairs, alterations, and additions to the electric equipment in Public Schools 1 and 2, Boro. of the Bronx, and Public Schools 103 and 157, Boro. Manhattan. For repairs, alterations and additions to the electric equipment in Public Schools 20, 40, 42, 79 and 147, Boro. Manhattan. For repairs, alterations and additions to the electric equipment in Public Schools 16, 58 and 75, Boro. Brooklyn. For repairs to heating and ventilating apparatus of Public Schools 4, 20 (Items 1 and 2), 34, 90 and Jamaica Training School, Boro. Queens.

BEVERLY, N. J.—Contract for lighting the city has been awarded to M. B. PERKINS, receiver of the Cinnaminson Electric Light Co., of Riverton, N. J., at $3,200 per year.

PHILADELPHIA, PA.—Plans have been prepared by John T. Windrim, Commonwealth Bldg., Philadelphia, for the erection of a power-house, 147.8 × 90.4 ft., one-story, for the Philadelphia Electric Co., between Ranstead and Ludlow Sts., west of 20th St.

Bids will be received at the office of the Commanding Officer, Frankford Arsenal, Philadelphia, for 1,300 tungsten lamps under Proposal No. 263.

FORT DU PONT (Delaware City post-office), DEL.—Contract has been awarded to the CAMDEN HEATING CO., Camden, N. J., for furnishing and installing at the pump-house two Babcock & Wilcox water-tube boilers, one Cochran fed water-heater, and one Copes feed-water regulator, and making necessary removals and changes in piping, at $6,993.

FROSTBURG, MD.—The City Council on June 6 awarded contract to the FROSTBURG ILLUMINATING & MFG. CO. for lighting the streets of the city at $68 per arc light and $1.32 for each 32-c.p. incandescent lamp.

BALTIMORE, MD.—The LORD ELECTRIC CO., 234 Courtlandt St., Baltimore, has secured contract for installing a complete electric light and water system at Severna Park for the Severn Realty Co. Oscar L. Hatton is Mgr.

WASHINGTON, D. C.—Bids will be received by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, until June 24, for furnishing and installing lighting fixtures in the United States buildings in Chippewa Falls, Wis., Danville, Ky., Versailles, Ky., Winchester, Va., Jackson, Miss., London, Ky., Montgomery, Ala., Gulfport, Miss., and New Orleans, La., mint, in accordance with drawings and specifications, copies of which may be obtained from the Supervising Architect.

LURAY, VA.—Bids will be received by the Town Council until June 27, for lighting streets for a period of three years, with the privilege of five years, at option of Council. Bids will be received on arc lights; 4 and 6 ampere, and on incandescent lights, 16 and 32 c. p. B. F. Batman is Recdr.

CHARLESTON, S. C.—One bid was received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on June 11, for a water-front substation, Building No. 20, navy yard, Charleston, that of the Simons-Mayrant Co., 16 Broad St., Charleston, at $3,813.

Bids were received as follows by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on June 11, for furnishing and installing piping, conduit, heaters, etc., in the yard and power plant, navy yard, Charleston: S. Faith & Co., 2427 Pennsylvania Ave., Philadelphia, Pa., Item (1) $21,989, (2 $1,185, (3) $300, deduct $400 conditionally; Newport Contracting & Engineering Co., Inc., 2700 Washington Ave., Newport News, Va., (1) $16,811, (2) $1,253, (3) $150; American Machine & Mfg. Co., 200 South Boulevard, Charlotte, N C., (1) $21,328, (2) $1,508, (3) $325; Evans, Almirall & Co., 281 Water St., New York, (1) $22,800, (2) $1,650, (3) $240; D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, (1) $21,911, (2) $1,329, (3) $615.

*ATLANTA, GA.—Bids will be received at the Mayor's office until noon, July 11, for the installation of new heating and ventilating plants in nine of the brick public school buildings of Atlanta. For full information, plans and specifications, apply to Robert F. Maddox, Mayor.

The ALLIS-CHALMERS CO., of Milwaukee, Wis., has secured the contract for installing a generator at the electric light plant, at $3,755.

JACKSONVILLE, FLA.—Bids were opened as follows on June 6 by the Board of Bond Trustees for (a) new turbine engine for the electric light plant, (b) new condenser, (c) new motor generator set: (a) Allis-Chalmers Co., Milwaukee, Wis., $26,480; General Electric Co., $27,144, (b), C. H. Wheeling Mfg. Co., $10,975; Henry R. Worthington, 115 Broadway, New York, $8,793; (c), Fort Wayne Electric Works, $9,610 and $7,704; General Electrical Co., $9,859; Westinghouse Electric & Mfg. Co., 165 Broadway, New York, $7,895; Cochran-Wheeler Co., $12,755; Allis-Chalmers Co., $9,144.

OXFORD, MISS.—See item under Water Supply—Irrigation.

MARTINS FERRY, OHIO.—The Board of Control has awarded contracts for equipment for the municipal electric light plant as follows: For two boilers to the ERIE CITY BOILER CO., of Erie Pa.; engine to the BUCKEYE ENGINE CO., of Salem, Ohio, for 250 KW. generator to the ALLIS-CHALMERS CO., of Milwaukee, Wis.

DAYTON, OHIO.—We are officially advised that bids were received as follows on June 3 by the Department of Public Service for gas, equipment and maintenance of street lamps: Furnishing gas equipment and maintenance for a period of five years, Dayton Gas Co., Dayton, $22.85 per lamp. Welsbach Street Lighting Co., of America, $21.85. Same for a period of ten years: Dayton Gas Co., $21.85. Welsbach Co., $20.85. Equipment and maintenance only for five years: Dayton Gas Co., no bid; Welsbach Co., $11.85. Same for ten years: Dayton Gas Co., no bid; Welsbach Co., $10.85. Contract was awarded on June 6 to the DAYTON GAS CO. for a period of ten years. W. A. Budroe is Secy. Bd.

DELAWARE, OHIO.—Plans and specifications are on file at the office of Engineering News, New York, for completing the lighting and heating system for Girls' Industrial Home. The specifications call for two additional engines and generators, 4,500 ft. of steam heating conduit, 10-in., 6-in. and 4-in. mains, with 4-in., 3-in. and 2-in. returns and reinforced concrete coal storage pocket, reinforced concrete electric lamp standards, 30,000 ft. of underground cable, wiring, lamps and fixtures for twelve buildings. Bids are asked by the Board of Trustee until June 27. Harold M. Bush, Consulting Engr., 69 North Fourth St., Columbus, Ohio.

RICHMOND, IND.—The American Seeding Co., is making preparations for the installation of an electric light and power plant to furnish electricity for its works.

RICE LAKE, WIS.—Contract for furnishing power and superintending municipal lighting system has been awarded to RED CEDAR VALLEY ELECTRIC CO.

MARSHFIELD, WIS.—The Weinberg Construction Co., of Grand Rapids, Wis., has submitted the lowest bid for the general construction of the Wood County Insane Asylum, to be built near Marshfield, at $107,990.

WEST ST. PAUL (St. Paul post-office), MINN.—A franchise has been granted to the South St. Paul Light, Heat & Power Co. to furnish electric light in West St. Paul.

STAFFORD, KAN.—Bids will be received by G. A. Mikesell, City Clk., until June 27 for furnishing material and constructing an electric light plant and water-works system as follows: Section (1) pipe, specials, etc.; (2) valves and hydrants; (3) mains; (4) erecting pumping station, receiving well, etc.; (5) furnishing foundations and material and erecting chimney; (6) furnishing and erecting pumping engines on [illegible]undations furnished by the city; (7) fu[illegible]shing and erecting boilers and accessori[illegible] etc.; (8) furnishing and erecting g[illegible]ator, switchboard equipment, etc.; (9) [illegible]ishing material and erecting pole li[illegible] etc. Plans and specifications are on fil[illegible] the office of the City Clerk and at the [illegible]e of the J. S. Worley Co., Reliance Bldg., [illegible]nsas City, Mo., Consult. Engrs.

MOBRIDGE, S. DAK.—L. E. Pie[illegible] has been granted a franchise by the Tow[illegible]ouncil to construct and operate an [illegible]tric light plant here.

FORT MACKENZIE, WYO.—The [illegible]west bid received for constructing a street [illegible]ghting system for Fort Mackenzie, has [illegible]een submitted by the F. E. Newberry E[illegible]tric Co., St. Louis, Mo., at $6,308.

HELENA, MONT.—We are official[illegible] advised that the FOUNDATION CO., 115 [illegible]dway, New York, has been awarde[illegible]ontract to complete the remaining port[illegible] of the Hauser Lake dam for the United [illegible]issouri River Power Co., at Hauser [illegible]ake, near Helena. The contract was made [illegible]ith the Stone & Webster Engineering Co[illegible]ration, 147 Milk St., Boston, representin[illegible] the United Missouri River Power Co. The work to be done under the contract [illegible]vers the completion of the remaining portio[illegible]ow under water. The pneumatic process will be employed to bring the work above water level.

ARAPAHO, OKLA.—The O'Neil Eng[illegible]ering Co., of Dallas, Tex., is preparing plans for the installation of an electric light plant and water-works system here. Estimated cost, from $30,000 to $40,000.

CHEROKEE, OKLA.—See item under Water Supply-Irrigation.

LIMON, COLO.—See item under Water Supply-Irrigation.

GREELEY, COLO.—The Directors of the Northern Colorado Power Co., have authorized the construction of a new power transmission line between its plants at Lafayette and Greeley and inaugurated plans for other extensive improvements. Estimated cost, $250,000. C. H. Williams, Denver, is Mgr.

CLE ELUM, WASH.—The Cle Elum Falls Power Co., has been incorporated for $1,000,000 by H. J. Manning, and others, of Tacoma.

SEATTLE, WASH.—The ALLIS-CHALMERS CO., of Milwaukee, Wis., has been awarded contract for the following equipment from the Schwager-Nettleton Mills at Seattle, Wash.: One saw mill, band type; 24 induction motors, 200 H.P. to 5 H.P.; a 750 K.V.A. steam turbo generator; a 35 KW. engine driven exciter unit; two 15 K.V.A. lighting transformers and a switchboard.

BARBER (Chico post-office), CAL.—The Diamond Match Co. has entered into a contract with the PACIFIC GAS & ELECTRIC CO., G. C. Holburton, Ch. Engr., San Francisco, for electric power to operate all departments of its manufacturing plant at Barber. The only steam power to be used will be that to operate the steam hammers, electricity not being adapted to that purpose. The contract calls for 1,200 HP., but only about 750 HP. will be used at the outset. A new power line will be built from the Chico substation and a substation will be built on the factory grounds.

SAN FRANCISCO, CAL.—Hunt, Mirk & Co., are preparing plans for a large power-house for the South Side Light & Power Co., to be erected south of Market St.

LOS ANGELES, CAL.—The following bids have been received by the Board of Public Works for furnishing lighting posts on Pico St.: B. F. Kierulff, $24,816; Mott Iron Works, $20,229; Louis R. Bedel, $21,594; Llewellyn Iron Works, North Main and Redondo Sts., Los Angeles, $15,463; Meyberg Co., $17,783; Advance Machine Co., $18,565.

LOS ANGELES, CAL.—The FORYE-PETTEBONE CO., 514 S. Broadway, Los Angeles, has secured contract for installing electric fixtures in the Higgins Building at Second and Main Sts., at $9,000.

PROVO, UTAH.—Bonds for $110,000 have been voted here for a municipal lighting plant, and $90,000 for a municipal water works. Bids will be asked soon.

FARNHAM, QUE.—The Town Council has decided to install an electric power plant and offer to furnish industrial companies which may locate in Farnham with power instead of a cash bonus. Estimated cost, $100,000.

NEW HAMBURG, ONT.—The citizens have voted in favor of the city purchasing the local electric light plant for $8,000.

INGERSOLL, ONT.—The citizens have voted to issue $39,800 of bonds to acquire the plant of the Ingersoll Electric Power & Light Co., and $15,000 of bonds for improvements to the plant.

VICTORIA, B. C.—Contract for supplying ornamental pillars and fittings for new street lights on Douglas St., has been awarded to HUTCHINSON BROS., at $54 each.

BRIDGES.

(** denotes that this work is advertised in Engineering News.*)

NASHUA, N. H.—We are officially advised that the contract for the construction of a reinforced concrete bridge, 500 ft. long over the Merrimac River was awarded on June 6 by the city to FRED T. LEY & CO., INC., of Springfield, Mass., at $74,480. Other bidders were: Conners Bros. Co., Lowell, Mass., $102,100. Oswego Concrete Co., Oswego, N. Y., $75,200. Ferro-Concrete Co., Harrisburg, Pa., $81,000. Work on the bridge will commence at once and is to be completed in 120 working days. E. O. Hathaway is City Engr.

GREENFIELD, MASS.—Bids will be received by the Board of Selectmen until 6 p. m., June 23, for the construction of a reinforced concrete arch bridge, 120-ft. span, over een River on Wisdom Way. Plans and cifications may be seen at the office of t Town Engineer.

BR GEPORT, CONN.—Bids will be received until June 17 by M. A. Kenny, Dir ept. Pub. Wks., for constructing a rei ed concrete arch bridge on Boston Ave 7-ft. span, requiring about 2,500 cu. yds. concrete.

T & SUNDERLIN, of Bridgeport, have sec contract for constructing a bridge over ne Rooster River at Brooklawn Ave., at 518.

H TFORD, CONN.—Bids will be received by Board of Contract and Supply, Jo seph uths, Secy., until 11 a. m., June 20, for e construction of an addition to the bri across Park River at Farmington Ave and furnishing about 1,000 bbls. of Por nd Cement.

E ZABETH, N. J.—Contract for the construction of the bridge over the Robinson bra of the Rahway River, at Goodwin's Sta n, Clark Township, has been awarded to RTHUR E. SMITH, of Plainfield, at $5,[illegible].

P TSBURG, PA.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of the three river piers of the North Side Point bridge across the Allegheny River. About 16,000 cu. yds. of stone and concrete masonry will be required. Bids are asked until June 27, N. S. Sprague is Supt. Bureau of Construction.

MAUCH CHUNK, PA.—Bids are asked by the County Commissioners Mauch Chunk, until 10 a. m., June 20, for the construction of a concrete bridge across Mahoning Creek in Mahoning Township. Warren Van Dyke is Clk.

PHILADELPHIA, PA.—The Pennsylvania R. R. Co. will widen the south bridge across the Schuylkill River used by the main line and New York division trains to carry four tracks. Work is to be completed before next fall. Alex. C. Shand is Ch. Engr. Bridges, Philadelphia.

OIL CITY, PA.—Bids are asked by the County Commissioners until July 7 for the construction of a bridge here. E. K. Smiley is Clk., Franklin, Pa.

WILMINGTON, DEL.—The County Court, Wilmington, has decided to construct a concrete bridge over White Clay Creek at Roseville, near Newark.

FAIRMONT, W. VA.—The Clarksburg & Weston Electric Ry. Co., has awarded contract to RAMAGE, WOLF & CO., of Fairmont for concrete work for three bridges.

PENCE SPRINGS, W. VA.—The Pence Springs Toll Bridge Co. has been incorporated with a capital of $10,000 and will construct two 170-ft. bridges across Greenbrier River, to have 16-ft. roadways, and concrete foundations. Contract has been awarded to the FARRIS BRIDGE CO., Pittsburg, Pa., at $15,000.

WINSTON-SALEM, N. C.—The Board of County Supervisors, on June 4, awarded contract for a concrete bridge over Brushy Fork creek to the CAROLINA ENGINEERING CO., of Burlington, N. C., at $3,600. The only other bidder on the work was the Oswego Bridge Co., at $3,825. The bridge will be 100 ft. long and the roadway 18 ft. wide. The present abutments will be raised ten ft.

SPARTANBURG, S. C.—Bids are asked by Spartanburg County until June 22 for constructing wooden bridge over North Tyger River. D. M. Miles is Superv.

ST. AUGUSTINE, FLA.—The city has decided to construct a bridge at South St.

*COLUMBUS, GA.—Bids are asked by W. C. Campbell, Supt. Pub. Wks., until noon, July 18, for constructing a concrete steel arch bridge over the Chattahoochee River at Dillingham St. The Concrete-Steel Engineering Co., Park Row Bldg., New York, is Engr.

JACKSONVILLE, FLA.—The Florida Co., T. P. Alston, Gen. Supt., Live Oak, Fla., has requested authority from the War Department for the construction of five bridges across various streams in Duval and Nassau Counties as follows: Drawbridge, clear opening 50 ft., over Kingsley's cut; draw, clear opening 50 ft. over Nassau River; fixed span, clear opening 25 ft., over Lofton Creek; fixed span, clear opening 25 ft., over Cedar Creek; draw, clear opening 45 ft., over Trout Creek.

ALEXANDRIA, LA.—Bids will be received until July 28 by the Alexandria & Pineville Bridge Co. for the construction of a creosoted timber frame protection work or bridge fender on pile foundation. Ira W. Sylvester is Consulting Engr., Alexandria.

GRETNA, LA.—Jefferson Parish has awarded contract to MIDLAND BRIDGE CO., Kansas City, Mo., at $6,560 for constructing bascule steel bridge over Harvey's Canal.

WASHINGTON, C. H., OHIO.—Bids are asked by the Commissioners of Fayette County until 1 p. m., July 2, for performing the labor and furnishing the material necessary, for both the substructure and the superstructure of a bridge over White Run near the White pike, near Leonard Cook's in Madison Township, steel bridge and concrete abutments. The dimensions, plans, specifications, and estimates of quantities for doing said work, are on file with A. E. Henkle, County Audr. and County Surv., for inspection. The Commissioners invite bids upon other plans and specifications than those now on file, which bids must be accompanied with suitable drawings, specifications and data to enable the board to clearly comprehend the design, plan and construction, and to make a proper comparison of the different plans and proposals.

WEST UNION, OHIO.—Bids are asked until 10 a. m., June 23, by the County Commissioners at the office of the County Auditor for the construction of a concrete abutment to the iron bridge over Brush Creek, Monroe Township. C. S. Daulton is Clk. Comrs.

CINCINNATI, OHIO.—Revised plans for the Gilbert St. viaduct were approved by the Director of Public Service, on June 10, and were presented to the City Council for action on June 13. The new plans comprise a change in the design, the material and the construction of the spans from those incorporated in the original plans for the structure. The viaduct will be built of concrete, the use of steel construction being entirely dispensed with. The change in the material was prompted by the fact that the viaduct will be built close to the ground, which will subject it to weather conditions, which would not affect it if it were built higher in the air. A saving in the maintenance of the viaduct will also result from the change to concrete. The new plans provide for short spans instead of the long arches of the first span, the only span of extra length being the one over Eggleston Ave. The viaduct will run from Eighth St. and Broadway to Gilbert Ave., and East Court St. It will be 1,178.89 ft. in length. The roadway will be 58 ft. in width and sidewalks on each side will be 11 ft. wide, making the total width 80 ft. Boulevard lamps will light the structure and the trolley wires will be supported by poles between the car tracks. Estimated cost, $700,000. F. H. Shipley is City Engr.

SIDNEY, OHIO.—Bids will be received until June 18 by the Board of County Commissioners, J. W. Lochard, Chn., for constructing the superstructure of a steel highway bridge in Franklin Township. H. T. Ruese is County Audr.

EDWARDSPORT, IND.—The Commissioners of Daviess and Knox Counties are preparing to ask for bids for the construction of a bridge over White River near Edwardsport. Estimated cost, $27,000.

JEFFERSONVILLE, IND.—The Commissioners of Clark County will receive bids until 11 a. m. July 16, for the construction of a new bridge over Logan Creek on the Henryville Road in Charlestown Township. Plans and specifications are on file with Peter Nachand, County Audr.

RUSHVILLE, IND.—The T. J. & H. F. BURKE CO., of New Castle, has been awarded contract at $10,444, for the construction of the Malcolm ford bridge in Orange Township.

HARTFORD CITY, IND.—Contracts for the two Hickman bridges over the Salamonie River have been let by the Commissioners of Jay and Blackford Counties to the GEORGE SAUNDERS CO. of Muncie, and the HACKEDORN CO. of Indianapolis. The contract for the steel bridge, which is 120 ft. in length, was secured by the Saunders Co., at $6,100. The bridge is to be constructed entirely of steel and iron. The other bridge, which is 100 ft. in length, will be built by the Hackedorn Co., at $5,629.

BESSEMER, MICH.—Bids are asked until June 18, by the County Road Commissioners for the construction of four bridges as follows: Two 20-ft. I-beam bridges; one 40-ft. girder bridge; one 75-ft. span bridge. All to have 16-ft. roadways, concrete abutments and floors. Charles S. Walker, Ironwood, Mich., is County Engr.

NORTH CHICAGO, ILL.—JAMES CORSE, of Racine, Wis., has secured contract for constructing a concrete arch bridge at the Naval Training Station, Great Lakes, North Chicago, at $28,000.

CHICAGO, ILL.—The Northern Pacific Ry. Co. has awarded to the AMERICAN BRIDGE CO., 30 Church St., New York, a 10,000-ton contract for bridge material.

The Great Northern Ry. has given the same concern a contract for 3,500 tons for bridges, and the Chicago Great Western Ry. has awarded it 1,500 tons.

MONTEZUMA, IOWA.—The STARK CONSTRUCTION CO., Des Moines, Iowa, has secured contract at about $15,000 for the improvement of the bridges in Poweshiek. A number of cement culverts and concrete arches will be put in all over the county.

INDEPENDENCE, KAN.—WEBER BROS., of Springfield, Mo., have secured contract for the construction of a number of arch concrete bridges in Montgomery County.

PITTSBURG, KAN.—Bids will be received until June 22, by O. F. Jones, City Clk., for constructing two steel highway bridges and abutments, length 120 ft.

LINCOLN, NEB.—We are officially advised that E. WALWORTH has been awarded contract by the county, for all repair work and steel bridges for one year from date of contract, and the STANDARD BRIDGE CO. for all wooden bridges. Bids were opened on June 2. H. E. Wells is County Clk.

GRAND FORKS, N. DAK.—The County Commissioners have let contract for 16 steel bridges to be built in various parts of the county. There were a number of firms competing for the work. The MINNEAPOLIS STEEL & IRON CONSTRUCTION CO., secured 13 contracts, and THE SECURITY CONSTRUCTION CO. secured the remaining three. The total amount to be paid for the 16 bridges will be $19,710. Work will be begun as soon as material can be got upon the ground.

OAKPORT, N. DAK.—Bids for the construction of a new reinforced concrete bridge north of the Probstfield farm were opened on May 31 by the Town Board. Contract was awarded to J. V. GODFREY of Fargo, the lowest bidder. The bridge will have a roadway of 20 ft. and the wing walls will be 20 ft. long and 10 ft. high.

PINE BLUFF, ARK.—The Pine Bluff & Northern Ry. Co., C. P. Harnwell, 1002 Southern Trust Bldg., Little Rock, Ark., will construct two bridges, one 150 ft. long across Bayou Meto and one across the Arkansas River.

MEMPHIS, ARK.—The Memphis, Paris & Gulf R. R., C. C. Henderson, Gen, Mgr., Nashville, Ark., contemplates the construction of a bridge across the Mississippi River.

KINGSVILLE, TEX.—The St. Louis, Brownsville & Mexico R. R. Co., will rebuild at once the bridge over the Brazos river which was recently destroyed by flood.

ARCADIA, TEX.—Bids are asked by Galveston Drainage District No. 1, B. E. Johnson, Secy., until July 5, for constructing from 50 to 100 wooden bridges. R. W. Luttrell is Engr., Galveston and Arcadia.

EDNA, TEX.—F. H. ALLSBURY & CO., have secured contract at $3,725, for the construction of a bridge across the Lavaca River about four miles above this city.

GUTHRIE, OKLA.—An issue of $200,000 of bridge bonds has been voted by Creek County for the construction of 69 steel bridges. Ofuskee county has voted $100,000 of bonds to build 36 steel bridges.

STILLWATER, OKLA.—The Oklahoma Public Service & Interurban Ry., R. A. Sturgeon, Ch. Engr., has awarded contract it is reported, to M. B. RYAN of Stillwater for constructing bridges and culverts on 14 miles of electric railroad.

TACOMA, WASH.—Contracts amounting to $51,964 were awarded on May 31, by the Commissioner of Public Works. One was for the construction of a reinforced concrete bridge across Buckley gulch on North 21st St., and the other was a grading contract on North 14th and 16th Sts., between Cedar Sts., and the west line of Baker's addition. The bridge contract went to CREELMAN, PUTNAM & HEALY, at $49,780. The LISTER CONSTRUCTION CO. was awarded the contract for the street grading.

SOUTH PASADENA, CAL.—See item under Streets and Roads.

CORNWALL, ONT.—Bids will be received until June 20 for the construction of five reinforced concrete bridges. John Mulin, is Clk.

FERGUS, ONT.—Bids will be received until June 22, for the construction of nine reinforced concrete bridges and culverts, and for abutments, steel deck and concrete floor on the Moorefield bridge. Bowman & Connor are County Engrs., 36 Toronto St., Toronto.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

SCHENECTADY, N. Y.—Plans have been completed for the erection of a building by A. Vedder Magee on Liberty St., Schenectady, to be used as a theatre. The structure is to cost about $150,000. The work is to be completed by Jan. 1. Bids will be asked for the work at once.

MIDDLETOWN, N. Y.—Bids were received as follows on June 9 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Middletown, N. Y.: Charles H. Peckworth, 415 Hudson St., New York, $71,190; Westchester Engineering Co., 39 East 42d St., New York, $66,875; Oscawana Building Co., 200 Fifth Ave., New York, $69,900; Richard E. Heningham, 1 Madison Ave., New York, $65,307; William H. Fissell & Co., 1133 Broadway, New York, $67,790; Thomas J. Buckley Construction Co., 103 Park Ave., New York, $67,200; Neptune P. Smyth, 1123 Broadway, $77,943; M. P. Wells, Witherspoon Bldg., Philadelphia, $68,777; Conroy Bros., Inc., 217 West 125th St., New York, $67,970; Conners Bros. Co., Lowell, Mass., $73,268; Hynd Bros. Co., 30 Church St., New York, $74,998; William J. Moran, Inc., 136 Broadway, Brooklyn, $97,647; J. E. & A. Pennock, Land Title Bldg., Philadelphia, $67,200; A. E. Badgeley, Binghamton, N. Y., $67,837.

NEW YORK, N. Y.—Bids are asked until 2.30 p. m., June 22, by M. J. Drummond, Comr. of Public Charities, for providing all labor and materials required for the interior finishing, electric fixtures, apparatus, mortuary compartments and all other work as set forth in the drawings and specifications for the entire completion of a new pathological building at the Kings County Hospital, Boro. of Brooklyn, the City of New York; for the grading, interior finishing, painting, elevator work, electric wiring and fixtures, cold storage and the like, as set forth in the drawings and specifications for the completion of a tuberculosis infirmary (west pavilion) for the Metropolitan Hospital district, Blackwell's Island, Boro. of Manhattan, the City of New York; for the interior finishing, cold storage, refrigerating plant, sterilizing plant, lighting fixtures and the like for the extension of two tuberculosis infirmaries, Metropolitan Hospital District, Blackwell's Island, Boro. of Manhattan, the City of New York.

Two Third Ave. corners in the Bronx will be improved with buildings. J. Clarence Davies has leased from the Henry Morgenthau Co. for 21 years, with privilege of renewals, the plot 140 ft. in Third Ave. and 110 ft. in Westchester Ave., and a depth of 90 ft., forming the northeast corner of Third and Westchester Aves., to a builder who will erect a business building on the site. Irving Wannes and Benjamin Silverman sold to the Wendover Bronx Co. the northeast corner of Third Ave. and 170th St., a plot 58 × 91 ft. The purchasers will erect on the site a 6-story apartment house.

Plans have been filed for a 12-story elevator apartment house with stores, to be erected at the southeast corner of Broadway and 98th St., for Samuel Borchardt. The building will have a frontage of 100.11 ft. on Broadway and 180.5 ft. on 98th St., with apartments for 75 families. W. L. Rouse and L. A. Goldstone, Archs., 12 West 32d St., estimate the cost at $1,000,000.

NEW YORK, N. Y.—Bids were received on June 7 by the Department of Public Charities for providing all labor and materials necessary for masonry, steel and iron work, roofing work, carpentry and electric work, heating and ventilating, plumbing work, etc., in the City Hospital, situated at the south end of Blackwell's Island, Boro. of Manhattan. Bidders are as follows: Luke A. Burke & Sons, Inc., 25 West 42d St., $51,000; George Hildebrand, 38 Park Row, New York, $36,657; Kelly & Kelley, 45 East 42d St., New York, $49,815; N. B. Smyth, 1123 Broadway, New York, $49,372; Charles Willie, $59,900.

Plans have been filed for building a 7-story brick loft structure in Corlears St., between Grand and Munroe Sts., with a frontage of 61 ft. on Corlears St., 125 ft. in Grand St., 111 ft. in Monroe St., and 5 ft. 4 ins. in the rear, for Goldberg & Greenberg at a cost of $75,000. Max Muller is Arch., 115 Nassau St.

McKim, Mead & White, Archs., 160 Fifth Ave., have filed plans for the addition to the New York Post-Graduate Hospital. The addition will be located in the rear and will face 20th St., east of Second Ave., with a frontage of 100 ft. and a depth of 92 ft., and eleven stories high. The facade will be of brick with terra cotta trimmings and will be ornamented with a loggia at the second and third stories, with four Tuscan columns and a loggia at the fourth story ornamented with four Ionic columns. From the seventh to the tenth floors, inclusive, will be private rooms. There will be a roof house to be used as a ward and a roof garden on the main floor with two towers, two stories high, the upper parts to be used for convalescent patients. The cost is placed at $350,000.

Plans have been filed for building a 12-story brick loft on the south side of 25th St., 100 ft. east of Sixth Ave., for the Alcourt Realty Co., at a cost of $350,000. The building will have a frontage of 96.6 ft. and a depth of 83.9 ft., with an extension 57 × 10 ft. The facade will be of brick with trimmings of limestone and terra cotta, and will be of fireproof construction. George & Edward Blum, 505 Fifth Ave., are Archs.

NEW YORK, N. Y.—The French Church of St. Jean Baptiste has about completed arrangements for the purchase of a plot at the southeast corner of Lexington Ave. and 76th St., as a site for a $300,000 church. A corporation has been formed to acquire the site, on which stand two 5-story flats, a stable, and a dwelling, all having a frontage of 102 ft. on the avenue and 170 ft. on the street. The church, it is reported, will exchange for this its property 1079 to 1089 Lexington Ave., northeast corner of 76th St., six 4-story dwellings, on a plot 102.2 × 70 ft.

Plans have been filed for erecting a 6-story brick tenement house on the north side of 164th St., 100 ft. east of Broadway, with accommodations for 49 families, for the 164th St. Building Co., Alexander D. Duff, Pres., at a cost of $200,000. George F. Pelham is Arch., 507 Fifth Ave.

George & Edward Blum, Archs., 505 Fifth Ave., began work on plans of 12-story apartments for Janpole & Werner at the southeast corner of Park Ave. and 78th St., to cover six city lots, with 150 ft. on the avenue. The apartments will range from seven to ten extra large rooms, with a whole basement for additional servants' rooms.

Plans have been filed with the Building Bureau for a 12-story brick loft structure to be built on the south side of 19th St., 205.6 ft. west of Seventh Ave., for the G. B. W. Construction Co., Sumner K. Gerard, Pres. The building will have a facade of brick with trimmings of limestone and terra cotta, of fireproof construction, with a frontage of 91.8 ft. and a depth of 84 ft. The cost will be $300,000.

NEW YORK, N. Y.—We are officially advised that Cramp & Co., 25 East 26th st., have secured a contract for a 7-story brick store and office building, to be erected at the southeast corner of Fifth Ave. and 42d St., opposite the new public library. The building will be erected on the former site of the American Savings Bank, and will have a frontage of 73.3 ft. on the avenue by 96 ft. on the street, with facades of brick and terra cotta. Edwin Wolf is the owner, and Thomas W. Lamb, 224 Fifth Ave., Arch. Cost, $150,000.

We are officially informed that the contract for the two 8-story brick apartment houses, 85 × 75 ft., to cost $300,000, for which plans were recently filed, will be put up on the premises at 517 to 527 West 112th St. They will be erected by the Klaw Realty Co. from plans by Lawler & Haase, Archs., 69 Wall St. The contract has been let to the THEODORE STARRETT CONSTRUCTION CO., 103 Park Ave., New York.

The following bids were received on June 8 by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for the general construction, etc., of new Public School No 146, Boro. of the Bronx: T. A. Clark Co., 225 Fifth Ave., $276,600; Thomas McKeown, Inc., 103 Park Ave., $293,000; A. L. Guidono & Co., 1 Madison Ave., $293,472; Charles H. Peckworth, 415 Hudson St., $284,870; John F. Walsh Const. Co., 1 Madison Ave., $287,000; P. J. Brennan & Son, 624 Madison Ave., $285,500; George Hilderbrand, 38 Park Row, $308,220; H. C. Stowe Construction Co., 221 Greenpoint Ave., Brooklyn, $279,400.

NEW ROCHELLE, N. Y.—The New York, Westchester & Boston Ry. Co. has entered upon a contract to build a station at the point where the road will cross Weaver St., in upper New Rochelle. It has been decided that this station will be known as Quaker Ridge. The station will be located on the property of F. A. Stratton. It will be of concrete construction, well lighted and heated, and equipped with modern sanitary arrangements. It is to be 20 ft. wide and 7[illegible] ft. long, and the station platform will be 30 ft. wide and 340 ft. in length, covered with a roof so projecting that passengers will get on and off trains under shelter. The road to the station will be a broad macadamized driveway, and there will be a covered approach on both sides for vehicles and those walking, where they will enter a subway to a wide stairway reaching up to the station, which will be situated between the two tracks. The roadway for vehicles will be 74 ft. wide, which will pass under the railroad a short distance south of the station and will increase to 100 ft., reaching through to Wilmot Road from Weaver St. Mace Moulton, 22 William St., New York, is Ch. Engr.

SHAMOKIN, PA.—Bids were received as follows on June 13, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-

office building at Shamokin, Pa.: Edward F. Fonder, Philadelphia, $81,550; A. E. Badgeley, Binghamton, N. Y., $69,867; Conners Bros. Co., Lowell, Mass., $71,800; Richard E. Heningham, 1 Madison Ave., New York, $69,453; Charles W. Peckworth, 415 Hudson St., New York, $68,878; M. P. Wells, Witherspoon Bldg., Philadelphia, $71,619; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $69,437; King Lumber Co., Charlottesville, Va., $73,440; William H. Fissell & Co., 1133 Broadway, New York, $70,366; Hynd Bros., 30 Church St., New York, $74-610; Shamokin Lumber & Mfg. Co., Shamokin, Pa., $76,000; R. C. Ballinger & Co., Philadelphia, $80,246. Time, Aug. 1, 1911.

PHILADELPHIA, PA.—Bids for completing City Hall were opened on June 13 by James B. Sheehan, Asst. Dir. of the Department of Public Safety. An item of $250,000 for this work was included in the $10,000,000 loan of 1900. The specifications include the refitting of the offices of the City Treasurer and the Recorder of Deeds and ornamentation of the fourth floor corridor, in keeping with the new decorations in the Council chambers. Filing cases for the City Treasurer and the Recorder of Deeds and a balcony in the latter's office are among the items to be furnished. Bids were submitted by the following: William S. Douglass, $265,000; John R. Gill & Co., 1215 Filbert St., $223,190; John R. Wiggins, Heed Bldg., $214,000; Hart Metal Case Co., for the metal filing cases alone, $28,800.

PHILADELPHIA, PA.—A 10-story apartment house is to be built by John Stafford at the southwest corner of Walnut and Camac Sts., at a cost of $300,000. The site for the building was bought by Mr. Stafford recently for $180,000, from the estate of George C. Thomas. The building will occupy the other end of the block on the south side of Walnut St., between 13th and Camac Sts. At the southeast corner of Walnut and 13th Sts. stands the St. James Hotel, which Mr. Stafford owns. The apartment house will conform in design to the hotel. It will measure 47 × 110 ft. to Chancellor St. Frank Seeburger is Arch.

A 7-story building of classic design, which will be devoted to music, is to be erected on the site of the old Wurts residence at the northwest corner of Walnut and 7th Sts. The property has been bought from the Wurts Estate by Herbert D. Allman, Commonwealth Bldg., who will erect the building and lease it to the Estey Co., whose piano and organ salesroom is now on Chestnut St. The building, which will occupy the entire lot, measuring 24.9 × 125 ft. to Moravian St., is now being designed by Baker & Dallett, Archs., 1629 Chestnut St. The Estey Co. will occupy the lower floors and the upper stories will be devoted to music studios, recital halls and parlors. It is expected that the structure, which will be fireproof, will be completed about Jan 1.

PHILADELPHIA, PA.—Contracts were awarded by the Property Committee of the Board of Education on June 13 for the construction of the A. K. McClure School, at Sixth St. and Hunting Park Ave., to CRAMP & CO., Commonwealth Bldg., for $155,445, and for alterations to the Pastorius School, in Germantown, to HENRY E. BATON, for $14,437. Bids for repairs and additions to schools to the amount of $76,000 were received, but no contracts were awarded. A resolution, which was indorsed by the Finance Committee, was adopted asking Councils to transfer $100,000 from the item for the purchase of sites and erection of buildings for elementary schools to the item for alterations, additions, general repairs, etc.

PITTSBURG, PA.—Building permits have been issued for the erection of 45 2-story brick dwelling houses on Superior Ave., 12 of which are to be built on Superior Ave., 12 on Washburn Ave., and 20 on Hotchkiss St., on the North Side. They will be built for Mrs. Mary Engel at a cost of about $80,000.

A contract has been awarded to D. T. RIFFLE, Keenan Bldg., for the construction for the First Baptist Chapel at Oneida and Sycamore Sts., Duquesne Heights. It will be of brick and stone.

Ground has been broken on Morewood Heights, Shadyside, for two residences, the total cost of which will be about $100,000. The larger dwelling is to be the home of Charles Du Puy, and O. M. Topp, Arch., Empire Bldg., who designed it, has awarded the contract for its erection to the THOMPSON-STARRETT CO., 49 Wall St., New York. The structure is to cost about $70,000, and is to be of fireproof construction. It is to be of the old English type and will measure 68 × 68 ft., and will contain 20 rooms. The residence will stand next to the Phipps house overlooking Fifth Ave. The other house will be toward the Beeler St. side of Morewood Heights fronting on Parish Lane and standing on an 80-ft. lot, which is also part of the Du Puy holdings. This house is to be built by Herbert Du Puy for a member of his family and is to cost $30,000. It will contain twelve rooms, three baths, a billiard room and den and will be of cut stone, cement stucco and timber. It is expected to have both residences finished by next Winter.

E. J. Schellentrager, Arch., 431 Fifth Ave., Pittsburg, has begun excavations for dwelling on Beechwood Boulevard, corner of Hastings St., to cost $50,000 or more. Soon he will begin excavating on the opposite corner of the boulevard for another $50,000 house. One of them will be built on 100 × 160 ft. and the other on 70 × 160 ft.

OAKLAND (Pittsburg post-office), PA.—Bids are being received by Cram, Goodhue & Ferguson, Archs., 170 Fifth Ave., New York, for the erection of the First Baptist Church of Pittsburg on the Schenley Farms, Oakland. It is to cost $200,000.

HOMESTEAD, PA. — Ground has been broken at Tenth Ave. and Ann St., Homestead, for the First Methodist Episcopal Church of Homestead, which will cost about $60,000. The building will be of sandstone and the auditorium will have a seating capacity of 800. Rev. B. B. Wolf is Pastor.

BALTIMORE, MD.—We are officially advised that the lot at the corner of German and Grant Sts., which was purchased by Martien & Co., real estate brokers, for clients, will be improved with a fireproof additional 8-story office building for the United States Fidelity & Guaranty Co. to cost $125,000. The structure will be 65 ft. front on German St. with a depth of 72 ft. to Grant St., and will be an addition to the present building at Calvert and German Sts. Otto G. Simonson, American Bldg., is Arch. Bids will be received until July 1. Noted last week.

WASHINGTON, D. C.—See item under Manufacturing Plants.

GRIFFIN, GA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Griffin, Ga., to GEORGE BECKING, Chattanooga, Tenn., at $46,139.

LOUISVILLE, KY.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 26, for the construction (including plumbing, gas piping and heating apparatus of the laundry and attendants' quarters, U. S. Marine Hospital, Louisville.

WILBERFORCE, OHIO.—Bids will be received by the Board of Trustees of Wilberforce University, until June 22, for the construction of a girls' dormitory in accordance with the plans and specifications prepared by Frank L. Packard, Hayden Bldg., Columbus. C. Stewart is Secy. of the Board of Trustees.

DELAWARE, OHIO.—Bids will be received by the Board of Trustees of the Girls' Industrial Home, located near Delaware, Ohio, until June 27, for the necessary labor and materials, to carry out the plans of remodeling the institution. The bids will include steam engines, generators, additions to the switchboard, the heating and lighting plant, changes in the water supply, reinforced-concrete coal storage pocket, steel water storage tank, electrical conduits, etc., in the twelve buildings comprising the institution. Harold M. Bush, 69 North Fourth St., Columbus is the Engr.-in-Charge.

DELAWARE, OHIO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, has awarded contract for the construction of a post-office at Delaware, Ohio, to JOHN G. UNKEFER & CO., Minerva, Ohio, at $57,684.

ASHTABULA, OHIO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, has awarded contract for the construction of a post-office at Ashtabula, Ohio, to R. S. MOORE & CO., of Danville, Ill., at $75,898.

COLUMBUS, OHIO.—D. W. McGRATH, of Columbus, has been awarded the contract for constructing the Columbus Citizens' building on Third St. He has been also awarded the contract for the carpenter work on the addition to be built to the Virginia Hotel.

INDIANAPOLIS, IND.—The construction of a hotel and wigwam on the corner of Market St. and Capital Ave. is being planned by the Great Council of Indiana Red Men. W. W. Drinkwater, of Kokomo, Ind., is Chn. of the Building Com.

The city school Board has bought a site on Median and St. Clair Sts., upon which to build a city library and school office building. John E. Cleland is Business Director.

William E. English has ordered plans on which bids will be received for remodeling English's Opera House.

Plans are being prepared for the erection of an engine house estimated to cost $57,000. The Board of Public Works will ask for bids as soon as the plans are approved by the City Council.

INDIANAPOLIS, IND.—We are officially advised that the R. A. Lemcke Realty Co., Lemcke Bldg., has let the contract to the WEST LAKE CONSTRUCTION CO., 717 Locust St., St. Louis, Mo., on a percentage basis, for the construction of a 15-story office building on Pennsylvania St., adjoining the present Lemcke Building. Plans are ready for bidders. The structure will be 100 × 75 ft. There will be an arcade reaching through the new and old buildings. Cost, $400,000. R. P. Daggett & Co., Lemcke Bldg., are Archs.

PRINCETON, IND.—Bids are asked by Frank B. Duncan, Arch., until noon, June 28, for the construction of a 2-story, 8-room school building in Center Township. Sanford Witherspoon is Trustee.

EVANSVILLE, IND.—The Hulmans Co., of Terre Haute, has purchased a site at Main and John Sts., on which to build a distributing warehouse five stories high. The estimated cost is $200,000. Bids will be in order in a few weeks.

LOGANSPORT, IND.—Carl Fisher, of Indianapolis, has ordered plans for the construction of an automobile garage on Sixth St. Bids will be called for in a short time.

LAPORTE, IND.—Dr. Edward Rumley and associates will receive bids for the erection of buildings at Silver Lake, to cost nearly $1,000,000. The buildings will be occupied by the Interlaken School, in this city.

TIPTON, IND.—As soon as plans are ready Samuel Hollingsworth, of Russiaville, Ind., will ask for bids for the construction of an apartment house on the site of his building, recently destroyed by fire in this city.

DETROIT, MICH.—John Scott & Co., 1603 Ford Bldg., have let the general contract for the proposed 7-story storage and office building, 100 × 100 ft., for Leonard's Reliable Storage Co., 23 West Alexandrine Ave., to the A. J. SMITH CONSTRUCTION CO., Hammond Bldg., Detroit, at $87,500.

Albert Kahn & E. Wilby, Trussed Concrete Bldg., have let the following contracts for the proposed 2-story store and office building, 100 × 100 ft., for Herbert E. Boynton, Union Trust Bldg.: Structural iron work to H. B. LEWIS, 45 Joseph Campau Ave.; masonry to M. SCHOLL, 459 Michigan Ave.; carpentry to FRANK SCOTT, 95 Calumet Ave.; plastering to FRITSCH & CO., Penobscot Bldg.; painting, to WILLIAM DIEDRICH.

GRAND RAPIDS, MICH.—Osgood & Osgood, Widdicomb Bldg., are preparing plans and specifications for a 6-story building at Commerce and Island Sts. for Carl, Knott & Co., wholesale milliners.

The Hazeton-Perkins Drug Co. has let the general contract for its proposed $65,000 store building at Commerce and Oakes Sts., to HAUSER, GIVEN & CO.

CHICAGO, ILL.—Definite plans for the erection of a 30-story hotel on the southeast corner of Madison and Clark Sts., were announced on June 8, when Harry C. Moir, owner of the Morrison Hotel and Boston Oyster House, acquired a leasehold on the property just east of the hotel on Madison St. The present Morrison Hotel and Boston Oyster House will stand until the new hotel is completed, the acquisition of the premises at 110, 112 and 114 Madison St., making that possible. When the business can be transferred to the new structure the old building will be torn down and a new one erected on the corner, so that the completed building will in effect be one hotel with a frontage of 157½ ft. on Madison St. and 99½ ft. on Clark St. The plans for the hotel have been drawn by Marshall & Fox, Archs., First National Bank Bldg. The cost will be approximately $5,000,000.

The Spiegel-May-Stern Co., 1045 West 35th St., Chicago, a mail order firm, has purchased from several owners a plot of 234x 125 ft. at Mosprat and 35th Sts. It is directly opposite the present location of the company and will be used as the site for an 8-story administration building, which is expected to cost about $150,000. Work on the new building is to begin at once, and it is expected to have the building completed and ready for occupancy by Sept. 1.

MADISON, WIS.—Sealed bids will be received until 10 a. m., June 21, at the office of the Secretary of the University of Wisconsin for the entire construction of the proposed Biology Building.

MARSHFIELD, WIS.—The WEINBERG CONSTRUCTION CO., of Grand Rapids, Wis., has been awarded the contract for the new Wood County asylum to be erected in this city. Cost, $107,990. The heating, plumbing and lighting contracts will be let separately.

ST. PAUL, MINN.—The contract for the superstructure of the 4-story pressed brick and cut stone store and office building for John Klein, at St. Peter St., near Seventh St., has been awarded to LAUER BROS., foot of Chesnut St. H. Kretz & Co. are Archs., New York Life Bldg.

J. H. NICKEL, 614 Endicott Bldg., city, has been awarded the contract for the general construction of the 1-story addition to the Endicott Arcade, Fifth St. near Robert St., for the Boston Northwest Realty Co., L. S. Cushing, Agent. It will be about 90 × 100 ft., with five store fronts and will be fireproof with brick, marble and tile work. G. H. Carsley, Endicott Bldg., is Arch. Cost, $50,000.

WICHITA, KAN.—The City of Wichita will build on the Haymarket Sq. a $150,000 structure, to be known as the Forum.

ST. LOUIS, MO.—A 16-story building, to cost about $500,000 probably, will be built here upon a lot, 127.6 × 127.6 ft., at the southwest corner of Eighth and Walnut Sts., by the Order of Railroad Telegraphers, H. B. Perham is Pres.; Leon W. Quick, Pres. of the Washington National Bank, is Secy.-Treas.

CARROLLTON, MO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Carrollton, Mo., to HIRAM LLOYD BUILDING & CONSTRUCTION CO., Odd Fellows Bldg., St. Louis, Mo., at $55,147.

FORT WORTH, TEX.—The contract for the construction of a 5-story building for Mrs. Dan Waggoner has been awarded to BUCHANAN & GILDER. The structure will cost $150,000. It will be 75 × 100 ft. and will be located on the northwest corner of Sixth and Houston Sts. Brick and reinforced concrete will be the materials used.

TENNYSON, TEX.—The Kansas City, Mexico & Orient Ry. Co., is preparing plans for a stone depot building that it will erect here. W. B. Titley is Supt. Bridges and Bldgs., Sweetwater, Tex.

EL PASO, TEX.—LEE & WOODWARD have secured a contract to erect a 10-story office building here for Major Fewel on San Antonio St. Construction will be of reinforced concrete, with terra cotta trim and marble entrance, three high-speed elevators, steam heat, etc.

OKLAHOMA CITY, OKLA.—We are officially advised that B. L. STEVENS & CO., of Oklahoma City, has been awarded the contract to construct a 5-story concrete commercial building for O. G. Lee at Oklahoma City, Okla.

SPOKANE, WASH.—Plans are being prepared by L. L. Rand for a 4-story brick and steel building for the southeast corner of Main Ave. and Washington St., to cost $75,000 and to be occupied by the Berry Clothing Co.

SAN FRANCISCO, CAL.—The St. Francis Realty Co., has had plans completed by William H. Weeks, Arch., 251 Kearny St., for a hotel building of seven stories and basement to be erected at once on the north line of Geary St., 77½ ft. west of Mason St. The lot upon which the hotel is to stand has a frontage of 60 ft. and a depth of 60 ft. to a rear street, and the corner lot is reserved for another building by the same company. The hotel will contain 70 rooms and 50 bathrooms. Its front will be in pressed brick and terra cotta of light colors. There will be an electric elevator, tiled bathrooms, marble entrance and a high class interior finish in enamel, mahogany and birch. The floor on the street level will have four stores.

LOS ANGELES, CAL.—The contract for the construction of the proposed Historical and Art Museum Building, to be erected in Agricultural Park by the County, has been awarded to J. F. ATKIN & SONS, Byrne Bldg., at $219,777. Noted last week.

The general contract for the erection of the 6-story and basement reinforced concrete loft building, 150 × 150 ft., at Second and Los Angeles Sts., for the Perry Estate, has been awarded to the HALL-MARTIN CO., Stimson Bldg., at $140,000. Morgan, Walls & Morgan are Archs., Story Bldg.

FRESNO, CAL.—S. N. Griffith has had plans prepared for a 5-story brick and steel apartment house, to be erected on M St. It will be 50 × 150 ft., with pressed brick walls, hollow tile partitions, two electric elevators, steam heat, and vacuum cleaning. Estimated cost, $100,000.

SAN DIEGO, CAL.—The GALLAGHER CONSTRUCTION CO. has been awarded contract for the construction of a 5-story brick and steel building for the Knights of Pythias, at $50,000. The plumbing contract has been awarded to C. H. JULIAN. Quayle Bros. are Archs., Granger Bldg., San Diego.

PASADENA, CAL.—A. B. Benton, Arch., 17 North Spring St., Los Angeles, Cal., has revised his plans for the Y. M. C. A. building to be erected here. It is to be five or six stories high, and will cost about [illegible]-000, leaving $50,000 for furnishings, etc.

PHOENIX, ARIZ.—The Adams Hotel Co., has been incorporated here for $250,000 to rebuild the Adams Hotel, destroyed by fire recently. J. C. Adams is Pres.

The following bids were received on June 1 by the Board of Education for the erection of a 2-story, 14-room brick school building here. Plans were prepared by Harrison Albright, Laughlin Bldg., Los Angeles, Cal.: L. A. Amirault, Phoenix, $77,192; F. O. Engstrom Co., Los Angeles, $77,[illegible]; Gallagher Construction Co., San Diego, $77,-900; L. L. Edens, Phoenix, $81,462; A. J. Winters, Phoenix, $91,420; L. E. C. Smith, Mesa, Ariz., $99,900.

*LEWISTON, IDAHO.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 27, for construction complete of the U. S. post-office at Lewiston.

STELLARTON, N. S.—Bids will be received until June 25 for the erection of 50 double tenement houses for the Acadia Coal Co., Limited.

MONTREAL, QUE.—PETER LYALL & SONS, 88 King St., Montreal, have been awarded the contract for the erection of the Yorkshire Insurance Building.

WINNIPEG, MAN.—CHARLES W. SHARP & SON has been awarded the contract for the erection of the Farmer Block, at $125,000. W. W. Blair, Northern Bank Bldg., is Arch.

SASKATOON, SASK.—Plans will be received until 5 p. m., June 30, for addition to city hospital, erection of a nurses' home and isolation hospital. J. H. Trusdale, City Clerk.

VANCOUVER, B. C.—Contracts for three schools have been awarded to BAYNES & HORIE. The structures will be fireproof, the reinforced concrete work to be done by the FERRO-CONCRETE CONSTRUCTION CO. The buildings at the corner of Tenth and Eleventh Aves. and Cypress St. and at the corner of 14th and 15th Aves., and Alder St., will cost $50,000 each; that to be erected at the corner of Bismark St. and Templeton Drive will cost, $24,000. They are to be completed by Dec. 1, next.

MEXICO CITY, MEXICO.—The contract for the proposed steel bank and office building of El Banco de Londres y Mexico in this city will be let about July 5. It will be located at the corner of Calle Coliseo and Avenida del 16 de Septembre.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

HOLYOKE, MASS.—The city proposes to construct a storage reservoir at the former water shed. Preliminary surveys are now being made, but work will probably not be started this year.

RUSSELL, MASS.—Bids will be received by the Board of Water Commissioners until 1 p. m., June 23, for the construction of a water system. Plans and specifications may be seen at the Town Clerk's office, Russell, and at the office of Durkee, White & Towne, Engrs., 17 Hampden St., Springfield.

WATERBURY, CONN.—The Board of Public Works has voted to construct a pumping station for a high water pressure service. Estimated cost, $125,000. R. A. Cairns is City Engr.

WATERBURY, CONN.—Bids were received by the Board of Public Works, R. A. Cairns, Engr., on June 7, for the construction of the Morris reservoir. The following are the approximate quantities: Stripping under embankment, 500 cu. yds.; excavation of trenches, 1,000 cu. yds.; rock excavation, 400 cu. yds.; concrete masonry, 1:3:6, 25,600 cu. yds.; concrete masonry, 1:3:5, 5,000 cu. yds.; concrete blocks, 2,960 cu. yds.; rolled embankment, 525,000 cu. yds.; crushed stone, 5,900 cu. yds.; crushed stone, stone, supplied by city, 2,400 cu. yds.; paving, 8,900 cu. yds.; loaming on dam, 6,300 yds.; loaming adjacent areas, 5,000 cu. yds.; seeding, 650 sq. rods; sodding, 18,840 basins; drain gate-house complete; service gate-house; granolithic flooring, 30 sq. yds. The bids follow: Ryan, Unmack & Co., New Haven, Conn., $528,436; Richard E. Heningham, 1 Madison Ave., New York, $641,-481; S. Pierson & Sons, Inc., 507 Fifth Ave., New York, $773,464; Conners Bros. Co., Lowell, Mass., $647,274; O'Brien Construction Co., 576 Morris Park Ave., New York, $659,075; McArthur Bros., 11 Pine St., New York, $723,957; J. F. Cogan Co., Brewster, N. Y., $900,706; Patrick McGovern, Boston, Mass., $594,531.

NEW YORK, N. Y.—Bids are asked until 2 p. m., June 22, by Henry S. Thompson, Comm. Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains and appurtenances, in Livingston and Remsen Sts., and in Elm and Gallatin Places, Boro. Brooklyn; also for furnishing and delivering c. i. pipe special castings and valve-box castings, Boroughs of Manhattan and The Bronx.

NEW YORK, N. Y.—Bids are asked by Henry S. Thompson, Com. Water Supply, Gas and Electricity, until 2 p. m., July 6, for furnishing, delivering and laying water mains in Mosholu Parkway, at intersection with Jerome Ave.; in Jerome Ave., between Mosholu Parkway South and 500 ft. south of same, and in city property north of and adjacent to the Jerome Ave. pumping station, and removing existing water mains, within the above described territory; for furnishing, delivering and laying a 48-in. water main in 204th St., from end of present main, near Valentine Ave., to Mosholu Parkway South; in Mosholu Parkway South, from 204th St. to Webster Ave., and in Webster Ave., between Mosholu Parkway South and 201st St.; for furnishing, delivering and laying high pressure fire service mains and appurtenances in Beekman, Cherry, Dover, Ferry, Frankfort, Front, Fulton, Gold, John, Nassau, Oak, Pearl, Platt, Roosevelt, Rose, South, Spruce, Vandewater, Water and William Sts., New Bowery, Burling Slip, James Slip, Peck Slip and Maiden Lane.

NEW YORK, N. Y.—Bids are asked until 2 p. m., June 29, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for various water-works supplies for all boroughs.

BUFFALO, N. Y.—Bids will be received until June 17 by Francis G. Ward, Comr. Pub. Wks., for c. i. pipe and special castings; brass corporation cocks and plugs; hydrants, valves, etc.

NIAGARA FALLS, N. Y.—Contract for the construction of the filtration plant of 16,000,000 gallons daily capacity has been awarded by the city to the NORWOOD ENGINEERING CO., Florence, Mass., at $234,565, to be completed in 350 days. Bids were opened on May 20. List of bidders noted on June 2. John M. Alvord and Charles B. Burdick are Engrs., Hartford Bldg., Chicago, Ill.

OGDENSBURG, N. Y.—Governor Hughes has signed a bill authorizing the city to issue $175,000 of bonds to develop and extend the water-works plant. George A. Tate is City Engr. Noted on May 26.

PERTH AMBOY, N. J.—Contract for furnishing water tube boilers at the pumping station at Runyon, bids opened on May 18, was awarded on June 1 by the city to the HEINE SAFETY BOILER CO., 11 Broadway, New York, at $4,775.

TRENTON, N. J.—Bids are asked by S. W. Kirkbride, Superv. State Prison, Trenton, until noon, June 20, for furnishing all materials, tools and other appliances and the labor to lay, complete in every respect, including the furnishing of pipe itself, 1,650 ft. of 6 in. pipe with special castings and appurtenances, including five 6-in. fire hydrants with valves, within the yard of the New Jersey Prison, following the wall parallel with Federal and Second Sts., the work to include the connecting of different wings and putting the job in a finished condition.

OVERBROOK, (Verona post-office), N. J. —The Building Committee of the Board of Chosen Freeholders on June 3, awarded contract to JOHN H. COONEY of Harrisburg, Pa., for installing the Evans-Almirall system of hot-water heating in the "star" group of buildings and in the laboratory here at $36,404.

BALTIMORE, MD.—See item under Light and Power Plants.

CHESTERTOWN, MD.—Bonds for $10,000 have been sold, to improve the water-works system.

RICHMOND, VA.—E. E. Davis, Supt. W. Wks., has recommended to the Council that the pumping station at the standpipe be enlarged and that a centrifugal-pump be installed. Estimated cost, $8,000. A subcommittee was appointed to investigate and report upon the advisability of doing the work.

BASIC CITY, VA.—City will receive bids until June 20 for pump and electrical machinery for improvements to the waterworks.

*WAYNESBORO, VA.—Bids will be received by the town until noon, July 8, for furnishing all material and erecting complete, a steel standpipe, 25 ft. diameter, and 80 ft. in height. Paul B. Woodfin is Town Pres.

COLLEGE PARK, GA.—See item under Light and Power Plants.

ATLANTA, GA.—JOSEPH KOEHNE has secured the contract for sinking artesian wells here at $4,800.

MILTON, FLA.—The Solomon-Norcross Co. of Atlanta, Ga., will prepare plans for and superintend the construction of a waterworks system. W. W. Clark is Mayor.

JACKSONVILLE, FLA.—Bids were opened as follows on June 6 by the Board of Bond Trustees for a 3,000,000-gallon covered reinforced concrete reservoir: (a) city's plans; (b) bidders plans: James N. Bruin Co., (a) $56,960; (b) $52,000. F. W. Long & Co., (a) $77,945; (b) $85,940. Lightman McDonald Co., (b) $55,138. Logan Coal & Supply Co., (a) $69,975. J. D. McGee, (a) $53,900. Bryan & Co., (a) $82,000; (b) $81,500. Piedmont Construction Co., (a) $74,950; (b) $72,875. Burwell Hilyer, Jacksonville, (a) $82,000. E. B. Garretson Co., (a) $77,700; (b) $75,990. Phillips & Turnbull, (a) $60,891; (b) $68,950. R. W. Ellis is Supt.

OXFORD, MISS.—The city has voted $30,000 of bonds for the extension of the water and electric-light systems.

OWENSBORO, KY.—The City Council will soon ask for bids for constructing a water softening plant at the municipal waterworks.

DESHLER, OHIO.—C. L. GARRETTSON & CO., of Cincinnati, have been awarded contract by the management of the C. H. & D. for building a large reservoir here to cost $15,000. Work on the contract has already been begun. It will be used, when finished, jointly by the C., H. & D. and the Baltimore & Ohio. At Deshler the C., H. & D. crosses the Baltimore & Ohio. The reservoir will supply the water tanks at that point for the engines of both roads.

LORAIN, OHIO.—Bids will be received until June 21 by the Board Public Service L. B. Johnston, Clk., for furnishing material and laying a 48-in. c.-i. or 51-in. steel riveted intake pipe from the present filter house to a point about 2800 ft. in Lake Erie; also for furnishing and installing necessary special valves and fittings, furnishing and placing a new intake cut, etc.

OAKLEY (Cincinnati post-office) OHIO.—Bids will be received by the village until noon June 23, for furnishing the necessary labor and materials for furnishing and laying water pipes in 29th St. Oscar Kosche is Clk.

SPRINGFIELD, OHIO.—The Board of Control on June 6 received bids for 100 tons of 6-in. material for the Water Works Department. Contract was awarded to the CAST IRON PIPE & FOUNDRY CO., of Columbus, at $25 per ton.

MARQUETTE, MICH.—The citizens have voted $250,000 of water-works bonds. John P. Kern is Secy. Bd. Fire & Water Comrs.

*DANVILLE, ILL.—We are officially advised that bids for furnishing the work and material for the reconstruction of the concrete dam for the improvement of the water-works of the Danville Water Co., for the City of Danville, were received at the office of the water company at Danville on June 3. D. W. Mead is Consulting Engr., 401 State St., Madison, Wis. Contract was awarded to the WESTERN CONCRETE BRIDGE CO., First National Bank Bldg., Chicago, Ill., at $11.90 per cu. yd. for concrete, including coffer dam and removal of sections of present dam; $1 for earth and $2.50 for shale excavation; 3 cts. for extra steel reinforcement. Other bidders were: L. E. Grande, Chicago, $17.10 per cu. yd., $1 and $1.50 and $3.50 for excavation; 4 cts. for steel reinforcement. Falkenan Electrical Construction Co., $18.40 for concrete and $3.60 for removing sections of present dam; 70 cts. and $1.30 for excavation; 3 cts. for steel reinforcement.

CORYDON, IOWA.—We are officially advised that the bid of the Miller Artesian Well Co., for a deep well has been rejected by the city. New bids are asked until 7:30 p. m., July 11. Iowa Engineering Co., Clinton, Iowa, are Engrs.

STILLWATER, MINN.—The citizens on May 31 voted to issue $145,000 of bonds to purchase the plant of the Stillwater Water Co.

MINNEAPOLIS, MINN.—Andrew Rinker, City Engr., has been directed to proceed with the construction of the mechanical filter plant as soon as preliminary plans are available.,

*FORT RILEY, KAN.—F. F. ZIEGLER, of Junction City, Kan., has secured contract at $6,196 for the extension of water mains to maneuver camp at Fort Riley.

STAFFORD, KAN.—See item under Light and Power Plants.

HUTCHINSON, KAN.—See item under Sewers.

PHILIP, S. DAK.—The citizens on May 31 voted to issue $13,000 of bonds to construct waterworks. Bids will be received at once.

KANSAS CITY, MO.—L. P. Cunningham, Atty., of Joplin, is planning to pipe spring water to Kansas City, using 30-in. pipe. Estimated cost $4,000,000. He is also reported to be planning to pipe the water of Center Creek and Spring River Springs to cities in the Joplin district.

TIPTON, MO.—The city will construct a pumping plant.

MONROE CITY, MO.—See item under Sewers.

FORT LOGAN H. ROOTS, ARK.—We are officially advised that bids were received as follows on June 6 by Lieut. Richard R. Pickering, Consulting Q. M., U. S. A., for the construction of a water tank: Des Moines Bridge & Iron Works, Des Moines, Iowa, $16,500 and $14,000; R. M. Galbriath, Pine Bluff, Ark., $14,592; William A. Dillon, New York, $19,000; Reummeli-Dawley Mfg. Co., St. Louis, Mo., $15,150; United Iron Works, Iola, Kan., $17,000 and $15,000; Chicago Bridge & Iron Works, Dallas, Tex., $14,700 and $12,925.

AUSTIN, TEX.—The charter of the Pecos & Toyah Lake Irrigation Co., capitalized at $1,500,000 has been filed. Its incorporators are J. N. Levin of Rutherford, Reeves County, and R. S. Johnson and T. H. Beauchamp of Pecos. Associated with them as directors are F. E. Dobbins, Charles A. Loomis and L. H. Baker of Kansas City and Frederick W. Taylor of Lincoln, Neb. It is proposed to build an irrigation ditch 65 miles long from the overflowed waters of the Pecos River through Sand Lake and Toyah Lake to the Pecos County land which is to be irrigated. After the land is irrigated it is proposed to sell it in small tracts.

SUGARLANDS, TEX.—The Sugarlands Co. will let contracts soon for drainage and irrigation ditching. Approximately 1,500,000 cu. yds. John J. Hainsworth, Miller Hotel, Brownsville, Tex., is Ch. Engr.

FORT SILL, OKLA.—Contract for installing water distributing system at Fort Sill, has been awarded to E. R. KERBY, of Lawton, at $14,568.

APACHE, OKLA.—The city will receive bids until June 27 for materials and machinery for proposed water-works construction.

WALTERS, OKLA.—The City Council has awarded contract to C. A. REESE, of Tahlequah, Okla., at $66,356 for constructing water and sewer systems.

CHEROKEE, OKLA.—Bids will be received until June 30 for water-works, electric lighting and sanitary sewers.

PUEBLO, COLO.—We are officially advised that the ELLSWORTH-KLANER CONSTRUCTION CO., 43 Central Block, Pueblo, have been awarded contract by the Pueblo Rock Ford Irrigation Co. for about six miles of irrigation canal involving the excavation of about 400,000 cu. yds. of earth and rock.

GREELEY, COLO.—T. D. Jones, Engr., of Denver, Colo., on June 2, filed a map for the construction of a reservoir in Weld County, to be known as Farmers' Reservoir No. 3. It will have a capacity of 10,818,819,500 cu. ft., and will irrigate a large area in the western part of the county. Estimated cost $2,000,000.

*CREEDE, COLO.—We are officially advised that bids were received by the Board of Directors of the San Luis Valley Irrigation District at the office of the company at Center, Colo., on May 25, for the construction of a dam and spillway at the Rio Grande reservoir site, located about 30 miles west of Creede, in Hinsdale County, the dam being 450 ft. in length, 100 ft. high, 30 ft. wide on top, and involves the placing, approximately of 68,000 cu. yds. of loose rock fill, 120,000 cu. yds. of earth fill, and 7,000 cu. yds. of rip-rap. Contract has been awarded to the ELLSWORTH-KLANER CONSTRUCTION CO., 43 Central Block, Pueblo, Colo. Work on the dam will commence on Sept. 1, 1910, and is to be finished by Dec. 1, 1912.

LIMON, COLO.—We are officially advised that Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are preparing plans for water-works and electric lighting here.

VANCOUVER, WASH.—The citizens have voted in favor of installing a municipal water-works system.

QUINCY, WASH.—Joseph Jacobs, Engr., 406 Central Bldg., Seattle, has completed plans for the proposed system of the Quincy Valley Water Users' Association. Estimated cost, $28,672,782, including a pipe line and a cement line syphon, 100 ft. below the Columbia River, to cost about $3,600,000. A. J. Ternent is Secy.-Treas., Morrison, Utah.

FORT STEVENS, ORE.—Bids for the construction of five reinforced concrete water tanks have been received as follows: Guire & Jamieson, Astoria, $3,550; E. Gustafson, Astoria, $3,612; Newport Engineering Co., $5,250.

EUGENE, ORE.—We are officially advised that the city council in June 3 awarded contract to the CALIFORNIA JEWELL FILTER CO., 820 Merchants Exchange, San Francisco, Cal., for the installation of a filtration plant here at $26,000.

SANTA BARBARA, CAL.—See item under buildings.

VALLEJO, CAL.—The City Trustees have authorized the Board of Public Works to have estimates prepared for the construction of a 12,000,000 gallon reservoir to be used in connection with the present distributing system on Fleming Hill; also for repairs to the Fleming Hill reservoir, and for a new pipe line from it to South Vallejo.

WILLOWS, CAL.—The Sacramento Valley Irrigation Co., Willows, has awarded to JOHN LANGENOUR, of College City, contract for Divisions 30 and 32 of the Central Canal, five miles of canal 30 to 35 ft. wide at the bottom and 10 ft. deep, 23,500 cu. yds. at 14¾ cts.

Contracts have also been let to the following: First section to R. F. BALL, of Fresno, who will complete the canal to the railroad track in Willows. C. HARLINGER, of Willows, for the next two miles and C. SCOTT, of Willows, the next two. J. W. KEARTH and PEART & SON, of Colusa, have the next four miles to Norman. Next month contracts will be let for the removal of 1,500,000 yds. of earth near Delevan. John Ryan is Secy.

SAFFORD, ARIZ.—The city will soon begin to pipe water from Graham Mountain, a distance of eight miles. Reservoirs and dams will be constructed.

PROVO, UTAH.—See item under Light and Power Plants.

WEISER, IDAHO.—The SLICK CONSTRUCTION CO., it is reported, has secured contract for constructing the dam, ditches, and laterals in connection with the Crane Creek irrigation project, at $950,000. The dam will impound about 70,000 acre ft. of water.

TORONTO, ONT.—C. H. Rust, City Engr., has been directed to proceed with the laying of mains and installing additional hydrants in Queen's Park. Estimated cost, $9,000.

BURNAHY (Edmonds post-office), B. C.—The BROUSE MITCHELL CO., of Vancouver, has secured contract for constructing water-works here.

RICHMOND, B. C.—The PACIFIC COAST PIPE CO., of Vancouver, was awarded contract for supplying and laying in the municipality of Richmond about 72 miles of wire-wound wood pipes, at $69,932. Other bids were: Municipal Construction Co., Vancouver, B. C., $76,670; Dominion Pipe Co., New Westminster, B. C., $78,624; Canadian Pipe Co., Vancouver, $80,500.

The following bids were received for 2½ miles of lap-welded 12-in. steel water pipe: Evans, Coleman & Evans, $16,745; Crane & Joy, $15,315, $17,087, $17,121; Robertson, Godson Co., $17,388, $17,121; 12-in. c. i. pipe, A. C. Forsyth, $19,761. Cleveland & Cameron, are Consulting Engs., Vancouver, B. C.

***NEW WESTMINSTER, B. C.—Bids are asked until 5 p. m., June 27, by W. A. Duncan, City Clk., for laying and jointing about 14 miles of 25-in. steel riveted pipe and about 8,000 ft. each of 12-in. and 13-in. lap-welded steel pipe, bids to include handling the pipes, fixing all valves and specials, construction of bridges, culverts, etc.**

CULIACAN, MEX.—Nelson Rhodes, Jr., and associates who recently purchased the sugar plantation and mills of the Almada Sugar Refineries Co. in the state of Sinaloa for $3,500,000 will construct a large system of irrigation upon the land. An irrigating canal 20 miles long is already under construction.

SEWERS.

(* *denotes that this work is advertised in Engineering News.*)

PORTLAND, ME.—Bids are asked until noon, July 1, by Bion Bradbury, Jr., Comr. Pub. Wks., for constructing Section 2 of the Morrill's corner sewer.

BOSTON, MASS.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., July 9, for constructing a drain at the Navy Yard, Boston. R. C. Hollyday is Ch. Bureau.

The following bids have been received for construqting the Stony Brook sewer conduit in the Roslindale Section: Charles R. Gow Co., 79 Milk St., Boston, $40,770; Bryne Construction Co., $42,091; McCarthy & Walsh, $43,920; A. Ceffalo, $44,449; P. W. Hill, $46,365; Luke D. Mullen, $51,292; J. J. Falvey, $52,917; J. H. Ferguson, $57,507.60; J. E. Palmer, $74,272.

Contract for the construction of sewers in Commonwealth and Chestnut Hall Aves. bids opened on May 31, has been awarded by the city to ANTONY CEFALO, 220 Devonshire St., at $6,030.

FORT WARREN (Boston post-office), MASS.—Bids are asked by Capt. A. M. Meller, 263 Sumner St., Boston, Constructing Q. M., U. S. A., until 10 a. m., July 7, for changes and extensions of sewers at Fort Warren.

NEW BEDFORD, MASS.—The City Council has appropriated $50,000 for work on the construction of the intercepting sewer. William F. Williams is City Engr.

*HARTFORD, CONN.—Bids are asked until 11 a. m., June 27, by the Board of Contract and Supply for the construction of approximately 6,000 lin. ft. of concrete sewer from 54 to 84 ins. in diameter, to be known as the East Side Intercepting Sewer. Joseph Buths is Secy.

HARTFORD, CONN.—Bids for constructing sewers in Homestead and Hillside Aves., Cabot, Holcomb and Park Sts., and constructing a concrete conduit over Gully Brook south of Liberty St., will be received by the Board of Contract & Supply until 11 a. m., June 20. Joseph Buths is Secy.

NEW YORK, N. Y.—Bids are asked by George McAneny, Pres. Boro. Manhattan, until 2 p. m., June 27, for constructing sewers and appurtenances in various streets; alterations and improvements to sewers in several streets; and for receiving basins and appurtenances in various streets.

NEW YORK, N. Y.—Bids were opened as follows on June 9 by George McAneny, Pres. Manhattan Boro. for all labor and materials required for the construction of the outlet sewer and appurtenances under the pier at the foot of 40th St., North River: Joseph Moore, 161 East 98th St., $12,694; Robert J. Rooney, $18,632; Smith & Fitz-Gerald, $14,924; Merrill-Ruckgaber Co., 50 Church St., $12,409; Willis J. Walsh, $16,499; J. William Engineering & Constructing Co., $14,567; Edward J. Grannis, $13,079.

Bids are asked until noon, June 21, by the Board of Trustees of the College of the City of New York, for the work of excavating a subdrainage tunnel from Amsterdam Ave. underneath the College grounds, along the line of 139th St. and across St. Nicholas Park to a connection with the sewer in St. Nicholas Ave., Boro. Manhattan.

GLEN COVE (L. I.) N. Y.—We are officially advised that a report recommending the construction of 18 miles of 12 to 8-in. vitrified pipe sewers and disposal by fine screening and discharge into 21-ft. depth of water in Hempstead Bay at a total cost of $80,500 has been presented to the Village Improvement Association of Glen Cove by W. B. Fuller, Consulting Engr., 130 Nassau St., New York. Mr. Fuller also recommends the parking of Glen Brook as a sanitary measure.

HOBOKEN, N. J.—Bids will be received until 4 p. m., June 22, by the Mayor and City Council for constructing the improvement of the First St. sewer from Park Ave. to Marshall St. James H. Londrigan is City Clk.

CHATHAM, N. J.—A sewage disposal plant it is reported, will be constructed in Chatham for the use of Chatham and Madison. Estimated cost, $65,000.

*PLAINFIELD, N. J.—We are officially advised that bids were received by the Common Council on June 6, for the construction of sanitary sewers, including 4,210 ft. of 8-in. vitrified pipe sewer, 6 to 10 ft. deep, eleven manholes, two flush manholes, 150 branches, 440 ft. 4-in. vitrified pipe house connections. The lowest bidder was A. Colucci of Plainfield, at $3,279. Andrew J. Gavett is Engr.-in-Charge.

*PLAINFIELD, N. J.—Bids will be received by the Common Council until 8 p. m., July 5, for the construction of storm sewer including laying 375 ft. of 24-in. vitrified pipe sewer, 265 ft. 30-in. vitrified pipe sewer, 400 ft. 12 and 15-in. vitrified pipe inlet connections, laying six branches, laying 50 ft. 4-in. c.-i. pipe, constructing twelve inlets, constructing two manholes. Andrew J. Gavett is City Surv.

PHILADELPHIA, PA.—See item under Streets and Roads.

***AVONMORE, PA.—Bids will be received by the Borough until 7.30 p. m., June 23, for approximately 1,000 ft. of 15-in. pipe sewers, 800 ft. 12-in., 635 ft. 10-in., and 865 ft. 8-in., with house branches, seven manholes and other appurtenances. Plans and specifications on file with C. H. Benninger, Clk. Council, and Robt. H. Wilson, Boro. Engr., Saltsburg, Pa.**

ROANOKE, VA.—Bids will be received until June 24 by W. L. Craft, City Clk., for constructing sewers in two streets. F. L. Gibboney is City Engr.

GAFFNEY, S. C.—The city has awarded sewer contract to GUILD & CO., Chattanooga, Tenn. W. W. Lyon, Jacksonville, Fla., is Consulting Engr.

Contract for ten miles of sewer pipe has been awarded to H. STEVENS' SONS CO., Macon, Ga.

*CHARLESTON, S. C.—Bids in duplicate will be received by the Board of Sewer Commissioners until noon, July 11, for the construction of sewage receiving tank, pump pit and appurtenances, including vertical centrifugal pumps and electric motors with controlling devices. J. H. Dingle is City Engr.

SAVANNAH, GA.—J. W. Howard, City Engr. has submitted a report on the house drainage extensions, and estimates the cost at $382,919.

MACON, GA.—The city awarded contract on June 1 to R. S. CLEMONS & CO. of Macon at $5,632 for the construction of sanitary sewers in Vineville. Contract for pipe was let to H. STEVENS' SONS CO., of Macon. O. W. Wilcox is City Engr.

COLLEGE PARK, GA.—See item under Light and Power Plants.

MERIDIAN, MISS.—See item under buildings.

NEW ORLEANS, LA.—J. A. CRAVEN & CO. of New Orleans have been awarded the contract for constructing a sub-surface drainage system in Julia St. W. J. Hardee is City Engr.

LA FOLLETTE, TENN.—Bids are asked by the city until June 29 for constructing a sewer in Tennessee Ave. from Aspen to Beech Sts.

MORRISTOWN, TENN.—The city has awarded contract to the EDWARDS CONSTRUCTION CO., Hickory, N. C., for constructing 8½ miles of sewers, piping to vary from 6 to 24 in. in diameter. The MUNICIPAL ENGINEERING & CONSTRUCTION CO., Chattanooga, Tenn., secured contract for constructing outfall sewer and disposal plant. Charles E. Collins is Consulting Engr., Drexel Bldg., Philadelphia, Pa.

MARBLE CLIFF, OHIO.—Bids will be received until noon, June 18, by C. Newhouse, Village Clk., for constructing a sewage disposal plant and sewer system.

MIDDLETOWN, OHIO.—On June 8 the Board of Control awarded contract to the GARVER CONTRACTING CO. of Hamilton, Ohio, for the construction of the trunk sewer at $64,129.

LORAIN, OHIO.—Bids will be received by the Director of Public Service until noon, June 21, for furnishing the necessary labor and materials for the construction of sewers according to plans and specifications on file in his office in the following streets: East 25th St., from Elyria Ave. to Denver Ave., and in Oberlin Ave. to Brownell Ave., Fourth and Fifth Sts.

NORWALK, OHIO.—Contract for the construction of the main relief sewer in Hester St. was awarded on June 2 by the city to J. C. McCANN & SON of Cleveland, at $20,213.

SPRINGFIELD, OHIO.—Huonker & Williams, Springfield, submitted the lowest bid for the sanitary sewer in Clark St. from Yellow Springs St. to the Pennsylvania R. R. tracks to the Board of Control on May 31. Daniel Doyle, M. J. Cooney and B. A. Higgins also bid on the job. The sewer is to cost about $12,000.

STRUTHERS, OHIO.—Bids will be received by L. S. Creed, Village Clk., until noon, July 6, for the furnishings of the necessary labor and materials for the construction of sewers both sanitary and storm water, in Short St. and Elm St.

INDIANAPOLIS, IND.—See item under Streets and Roads.

MUNISING, MICH.—Bids will be received by James Tracy, City Clk., until July 7, for 6,854 ft. of 8-in. to 24-in. vitrified pipe, 1985 ft. of 2 ft. 6 in. × 3 ft. and 3 ft. × 3 ft. 6 in. concrete sewers, two bulkheads, 19 manholes, 19 catchbasins, one lamphole and seven or more catchbasin covers. W. G. Kirchoffer is Engr., Madison, Wis.

ELGIN, ILL.—LOGAN & GIERTZ, of Elgin, have secured contract at $83,400, for the construction of the Fifth Ward sewer and at $5,459 for the construction of the Villa St. sewer.

PEORIA, ILL.—Clay Belsley, City Engr., is preparing plans for two sewer systems, one for the north and one for the south end of the city.

BUSHNELL, ILL.—Bids will be received until June 20 by W. H. Dawson, City Clk., for constructing sewers, requiring about 9,240 ft. of 8-in. vitrified sanitary pipe, 9,506 ft. of 10-in., 10,085 ft. of 12-in. and 734 ft. of 15-in., flush tanks, manholes and two disposal tanks.

CORLISS, WIS.—Contract for the construction of a sewer system, from the plans of the W. S. Shields Engineering Co., of Chicago, Ill., has been awarded to N. F. REICHERT, of Racine. Estimated cost, $9,000.

SHEBOYGAN, WIS.—ROBERT C. NELSON of Racine, Wis., has submitted the lowest bid for the sewer which will change the emptying of sewage from the lake to the river. Estimated cost, $25,000.

CRESCO, IOWA.—Bids will be received until June 20 by P. J. McCullon, City Cllk., for constructing main sewer No. 2 in Sections 1 and 2, about 3,050 ft. of 12-in. sewer; also lateral sewers Nos. 9 and 10, about 2,600 ft. of 8-in. sewer. W. L. Richards is Engr., Cresco.

PELLA, IOWA.—The city will receive bids for six miles of 8 to 15 in. pipe sewer and disposal plant until 8 p. m., July 6. A. C. Kuyper, is City Clk. Iowa Engineering Co., Clinton, Iowa, are Engrs.

KNOXVILLE, IOWA.—Bids for sanitary sewers here have been rejected. New bids are asked until 2 p. m., June 27. Hall & Adams, Centerville, Iowa, are Engrs.

WAUKON, IOWA.—The THILL-MANNING WHALEN CO., of LaCrosse, Wis., has been awarded contract at $20,174, for the construction of a sanitary sewer system.

JOHN A. DOHKAD, Waukon, received contract for the construction of a disposal plant. Bids were opened on June 1.

MONTEVIDEO, MINN.—Bids are asked until 8 p. m., June 20, by J. M. Severens, City Clk., for the construction of a sewer in Sixth St., from Park Ave. to Canyon Ave.

ABILENE, KAN.—We are officially advised that bids were received on June 9 for storm water sewers and street paving here. No awards were made but will be after an investigation of the different kinds of paving bid upon. Burns & McDonnell, Scarritt Bldg., Kansas City., Mo. prepared plans.

BURLINGTON, KAN.—Bids are asked until June 28, by the city for sanitary sewers including sewage disposal works. Burns & McDonnell are Engrs.

SABETHA, KAN.—Bids are asked until July 12 by the city for sanitary sewers including two separate sewage disposal works. Burns & McDonnell are Consulting Engrs.

HUTCHINSON, KAN.—The City Commission has adopted an ordinance providing for the construction of six additional sewers and sewer extensions.

L. W. SCHRUTH, Fargo, N. Dak., has contract at $4,106, for the construction of a sewer in Adams St. and Fifth Ave., aggregating ten blocks, and for laying water mains, two blocks in Adams St. and two blocks in Fifth Ave.

VERMILION, S. DAK.—Bids will be received until June 27 by the Board of City Commissioners, for constructing sewers in portions of Pine and Yale Sts. C. I. Vaughan is City Audr.

SIOUX FALLS, S. DAK.—Plans are being prepared by L. P. Wolf, Consulting Engr., 204 Essex Bldg., St. Paul, Minn., for the construction of a complete main lateral sewer system. Estimated cost, $200,000. All sizes of pipe ranging from 8 to 48 ins. will be used. L. Larson is City Recdr.

ST. LOUIS, MO.—Bids were opened on June 1 by the Board of Public Improvements for the second section of the South Harlem joint sewer. Bids submitted showed an excess over the estimates of $25,000. Bambrick Bros. Construction Co., 5229 St. Louis Ave., St. Louis, bid $236,650. The Fruin & Colnon, St. Louis, bid $239,681. John F. McMahon, St. Louis, bid $245,040. In each of the sections the board has decided to ask for an additional appropriation to cover the excess of the lowest bid.

MONROE CITY, MO.—We are officially advised that plans are being prepared by Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., for sewers and water-works here.

*AMARILLO, TEX.—Bids will be received by the City Secretary until 10 a. m., June 28, for furnishing materials and labor for construction of sanitary sewers. The work will consist approximately of 11,100 ft. 15-in., 8,155 ft. 12-in. and 30,835 ft. 6-in. diameter sewer pipe. Plans and specifications on file at office of City Secretary, and E. L. Dalton, Engr., Dallas, Tex.

APACHE, OKLA.—The city will receive bids until June 27 for materials and machinery for proposed sewer construction.

WALTERS, OKLA.—See item under Water Supply-Irrigation.

HUGO, OKLA.—Bids are asked by the city until July 5 for sanitary sewer system, including disposal plants, etc. H. C. Blanchard is City Engr.

OKLAHOMA CITY, OKLA.—Bids are asked by Bob. Parman, City Clk., until 5 p. m., June 20, for the construction of a lateral sewer in various streets.

CHEROKEE, OKLA.—See item under Water Supply—Irrigation.

PUEBLO, COLO.—The PUEBLO CONSTRUCTION CO. has been awarded contract for the construction of a sewer, 8-in. in diameter, in district No. 5.

SEATTLE, WASH.—Grant Smith & Co. have submitted the lowest bid to the Board of Public Works for the construction of the Lake Washington district of the North Trunk sewer on alternative plans at $827,169 and $826,445. R. H. Thompson is City Engr.

PORTLAND, ORE.—Contract for the Powell St. sewer system of the Brooklyn district has been let to BECHILL BROS., at $19,576, and the East Eighth, East Ninth and East Tenth St. system to WILLIAM LIND at $18,683. This latter district is between Milwaukee St. and the Willamette River, and is the final contract in that portion of the city. The south branch and the Kenilworth branch have not yet been let, but will probably be let this month.

SAN JOSE, CAL.—Bids will be received until June 20 by the Board County Supervisors, Henry M. Ayer, Chn., for installing a sewage disposal system at the County Hospital on the Infirmary Road.

CHICO, CAL.—The citizens on May 24, voted to construct a storm water sewer system. M. C. Polk of Chicago, is Engr.

BAKERSFIELD, CAL.—The city has ordered the construction of vitrified pipe sewers on E, O, P, Q, R and S Sts. Plans have been prepared by the city engineer and are on file at the office of A. L. Lightner, City Clk.

PASADENA, CAL.—S. T. Van Ornum, City Engr., has recommended that sewers be constructed in California, Hill, Holliston, Chester, San Pasqual, and Division Sts. Estimated cost, $9,056 for salt glazed pipe. Also in Catalina, Wilson, Stevenson, Bell, Washington, Claremont Sts. Estimated cost, $10,583.

PASADENA, CAL.—The city has adopted plans for a storm water sewer, consisting of an open conduit, concrete construction, a distance of 1,500 ft., the remainder to be reinforced concrete covered conduit. Estimated cost, $12,760. Herman Dyer is City Clk.

TULARE, CAL.—The city has voted $80,000 for a complete sewer system.

LOS ANGELES, CAL.—W. A. Frick has submitted the lowest bid for constructing a sewer system at Beverly Hills for the Rodeo Land & Water Co., Pacific Electric Bldg., Los Angeles, at $16,000. Plans prepared by Olmsted & Gillelen, Wright & Callender Bldg., Los Angeles.

WINNEMUSCA, NEV.—We are officially advised that L. C. Kelsey, Consulting Engr., 402 Dooly Block, Salt Lake City, has been employed as consulting engineer on the proposed sewer system here. Bonds for $60,000 have been issued.

MONTREAL, QUE.—R. T. SMITH & CO., have secured contract at $4,829, for the construction of a brick sewer in Maplewood Ave., and at $8,040 for the construction of a sewer on DeL' Epee Ave.

WINGHAM, ONT.—Bids will be received until 6 p. m., June 21, for the construction of sewers and sewage disposal works. John F. Groves is Town Clerk.

MEDICINE HAT, ALTA.—The city proposes to construct terra cotta sewers. Estimated cost, $35,000, city to do the work. H. K. Grimmer is City Engr.

GARBAGE DISPOSAL.

(* *denotes that this work is advertised in Engineering News.)*

TOLEDO, OHIO.—We are officially advised that bids were received as follows on June 10 by the city for the disposal of the city's garbage: Fred C. Alber, $5,875 per year; N. Rassel & Sons Co., Toledo, $9,425; Toledo Fertilizer Co., Toledo, $11,800. Fred Shane is Secy. Bd. of Control.

SUPERIOR, WIS.—The Board of Health has recommended to the city the construction of a 50-ton garbage crematory.

VANCOUVER, B. C.—Bids for the construction of the new incinerator to be built near the end of the Cambie St. bridge have been received as follows: Public Works Engineering Co., Portland, Ore., four bids on different types, ranging from $63,000 to about $70,000; Dundon Excelsior Furnace Co., $69,000; Heenan & Froude, incinerator with front feed, $54,968; with back feed, $46,131; Dixon Engineering Co., $49,500; J. W. McFarlane, $82,357.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.)*

CONCORD, N. H.—Bids are asked by H. C. Hill, State Engr., Concord, until 1 p. m., June 17, for constructing 6½ miles of native stone road in Wakefield.

HARTFORD, CONN.—Bids for the construction of State road work were received at the office of the State Highway Commissioner June 14 as follows:

Town of Ledyard, 5,150 lin. ft. grading on the River Road, 14-ft. travel way, including four 15-in., one 18-in. and one 12-in. tile culverts and one reinforced concrete arch culvert; A. Brazos & Sons, Middletown, Conn., $14,395 lump sum, 40 cts. per lin. ft. for telford, and 80 cts. per lin. ft. for rubble drain; H. L. M. Ladd, New London, Conn., $9,500, 50 cts., 50 cts.; Eldredge Construction Co., Mystic, Conn., $7,444, 45 cts. 25 cts.; John W. Polcaro, Pittsfield, Mass., $11,040, 90 cts., 80 cts.; Ahern Bros., Norwich, Conn., $8,500, 60 cts., 95 cts.

Town of Meriden, 5,738 lin. ft. macadam-telford on West Main St., 14-ft. travel way, including one 18-in. and three 12-in. tile culverts and 10-in. tile drain pipe; O. T. Benedict, Pittsfield, Mass., $2.29 for macadam, $2.99 for telford, $1 for rubble drain, 90 cts. per sq. yd. for cobble gutters; Thomas Kearney, Meriden, Conn., $1.63, $1.83, 65 cts., 60 cts.; C. W. Tryon, Meriden, Conn., $1.49, $2.10, $1, 65 cts.; Suzio & Toner, Meriden, Conn., $1.75, $2.45, 75 cts., 60 cts.

Town of Coventry, 10,000 lin. ft. gravel-telford, on the Willimantic Turnpike, 14-ft. travel way, including one reinforced concrete arch culvert; O. T. Benedict, Pittsfield, Mass., $1.59 for gravel, $2.09 for telford, 80 cts. for rubble drain, 80 cts. per sq. yd. for cobble gutters; A. Brazos & Sons, Middletown, Conn., $1.95, $2.35, 80 cts., 70 cts.; A. Vito, Thompson, Conn., $1.45, $2.20, $1.10, 80 cts.; Sternberg & Cadwell, West Hartford, Conn., $1.39, $2, $1, 50 cts.; A. Brazzos & Sons, Middletown, Conn., $1.75, $2.50, $1, 60 cts.; E. G. Pardee, Bethany, Conn., $1.69, $2.34, 95 cts., 65 cts.; Ahern Bros., Norwich, Conn., $1.35, $1.90, $1.10, 75 cts.

Town of Putnam, 4,700 lin. ft. macadam-telford, on Dayville Road, 16-ft. travel way, including two 15-in., three 18-in., one 24-in. and one 20-in. tile culverts: O. T. Benedict, Pittsfield, Mass., $2.99 for macadam, $3.59 for telford, 80 cts. for rubble drain; A. Vito, Thompson, Conn., $2.98, $3.69, $1.10; A. D. Bridge's Sons Co., Hazardville, Conn., $2.93, $3.73, $1.

Town of Clinton, 16,016 lin. ft. graded-telford road, on Killingworth turnpike, 14-ft. travel way, including five 15-in., two 12-in., one 24-in., three 20-in. and three 18-in. tile culverts and four concrete arch culverts: Joseph D'aloia, West Somerville, Mass., $14,291 lump sum for grading, $2.25 per lin. ft. for telford, 85 cts. for rubble drain, $5.50 per cu. yd. for masonry walls; B. D. Pierce, Jr., Co., Bridgeport, Conn., $23,520, 65 cts., 70 cts.; A. Brazos & Sons, Middletown, Conn., $40,040, 60 cts., 75 cts., $5; Roger Kennedy, Middletown, Conn., $38,758, 80 cts., 90 cts.

Town of Killingsworth, 11,485 lin. ft. graded-telford road on the Clinton turnpike, 14-ft. travel way, including four 24-in., two 20-in., and one 15-in. tile culverts and one reinforced concrete arch culvert: B. D. Pierce, Jr., Co., Bridgeport, Conn., $[illegible] for grading, 65 cts. for telford and 7[illegible] cts. for rubble drain; A. Brazos & Sons, Middletown, Conn., $24,118, 40 cts., 80 [illegible]; Roger Kennedy, Middletown, Conn., $[illegible] 605.70, $1.40, 80 cts.

Town of Salem, 5,130 lin. ft. gravel-telford, on the Colchester turnpike, 1[illegible]-ft. travel way, including, one 24-in., three [illegible]-in., two 12-in., two 18-in. and one [illegible]-in. tile culverts: A. Brazos & Sons, Middletown, Conn., $3.60 for gravel, $4 for telford, 80 cts. for rubble drain, 65 cts. per sq. yd., for cobble gutters; Roger Barnes, New London, Conn., $1.49, 90 cts., [illegible] and 24 cts.; Ahern Bros., Norwich, Conn., $3.35, $3.95, $1.10, 75 cts.

Town of Colchester, first section, 3,75[illegible] lin. ft. gravel-telford on the New London turnpike, including four 15-in. and four 12-in. tile culverts; A. Brazos & Sons, Middletown, Conn., $2.14 for gravel, $2.54 for telford, [illegible] cts. for rubble drain; Roger Barnes, New London, Conn., $1.59, $2.49, $1.25; Ahern Bros., Norwich, Conn., $1.25, $1.85, [illegible]; Roger Kennedy, Middletown, Conn., $1[illegible], $2.37, 90 cts.; Merritt & Bush, Stamford, Conn., $1.75, $2.25, $1. Second section, 2,005 lin. ft. gravel-telford, same road, including one 12-in. and one 15-in. tile culverts, A. Brazos & Sons, Middletown, Conn., $2.35 for gravel, $2.75 for telford, 80 cts. for rubble drain, 70 cts. for cobble gutters; Roger Barnes, New London, Conn., $1.[illegible], $2.39, $1.25, 24 cts.; Ahern Bros., Norwich, Conn., $2.81, $3.50, $1, 75 cts.

HARTFORD, CONN.—Bids for resetting 440 lin. ft. of curbstone and relaying about 3,600 sq. yds. of flag walk will be received by the Board of Contract and Supply, Joseph Buths, Secy., until 11 a. m., June 2[illegible].

HARTFORD, CONN.—The contract for a special resurfacing treatment of about 6,6[illegible] lin. ft. of road in the town of East Hartford has been awarded to OLMSTED & OLMSTED, of East Hartford, Conn.; a contract for a similar treatment on about 6,200 lin. ft. in the town of Wallingford, has been awarded to THOMAS KEARNEY, of Meriden, Conn.; a third contract for 1,250 lin. ft. in the town of Farmington has been awarded to the CONNECTICUT CONTRACTING CO., of New Britain, Conn.

NEW BRITAIN, CONN.—Bids for improved pavements were received by the Board of Public Works on June 13, as follows: Peter Suzio & Co., Hartford, Conn., Mack brick, $2.70 sq. yd.; 3-in. wood block, $3.30; 3½-in. wood block, $3.50. Warren Bros. Co., Boston, Mass., bitulithic pavement, $2.42 sq. yd. Robert W. Hensen, Geneva, N. Y.; Bessemer block brick, $2.37 sq. yd.; Clearfield clay brick, $2.42; Bessemer paver block, $2.27; Bessemer fire block, $2.37. M. F. Dollard, Albany, N. Y., Mack brick, $2.35 sq. yd. F. T. Ley & Co., Springfield, Mass., Bessemer shale brick, $2.65 sq. yd.; Bessemer fire clay, $2.63; Bessemer paver, $2.56; Mack block, $2.66. Field, Barker & Underwood, Springfield, Mass., Mack brick, $2.45 sq. yd.; Bessemer brick, $2.52; Metropolitan shale brick, $2.59. U. S. Wood Preserving Co., wood block, 3½-in. long-leaf yellow pine, $3.24 sq. yd.; 3-in., $3.12; for 3½-in. short-leaf yellow pine, $3.12; for 3-in., $2.94. No definite action has been taken on these bids.

WATERBURY, CONN.—We are officially advised that bids were received by the Board of Public Works until 8 p. m., on June 7, for grading Jefferson St. Plans and specifications at office of Robert A. Cairns, City Engr., 9 Leavenworth St. The contract has been let to SANTI TROINO, 74 Clark St., Waterbury.

*ALBANY, N. Y.—The bids received by the State Highway Commission on June 6 for the repairing and resurfacing of the following State and County highways, were:

Repair Contract No. 76, Loudon Road No. 119, Section 2, Albany County: T. F. SHAUGHNESSEY CO., Albany, N. Y., $24,400 (awarded contract on residuum); Aetna Engineering & Contracting Co., Herkimer, N. Y., $29,380; M. F. Dollard, Albany, N. Y., $25,162; Brown & Lowe, Schenectady, N. Y., $29,432; John E. Burns & Co., Boston, Mass., $25,785; John W. Flynn, Waterford, N. Y., $26,558; John W. Whalen, Whitehall, N. Y., $29,017.

Repair Contract No. 78, Delmar-Slingerland Road No. 92, Albany County: ALONZO SCHAUPP, Albany, N. Y., $10,789 (awarded contract on residuum); John E. Burns & Co., Boston, Mass., $10,985; Thomas F. Shaughnessey & Co., Albany, N. Y., $11,500; Ryan & Yale, Brewsters, N. Y., $11,780; M. F. Dollard, Albany, N. Y., $11,327.

Repair Contract No. 65, Olean-Allegany County Highway No. 601, Cattaraugus County: F. V. E. BARDOL, Buffalo, N. Y., $6,500 (awarded contract on Bermudez); Frank L. Cohen, Buffalo, N. Y., $7,200.

Repair Contract No. 56, Owasco County Highway No. 383, Cayuga County: BRAYER BROS., Auburn, N. Y., $10,341; (awarded contract on residuum); Central City Paving Co., Syracuse, N. Y., $11,500; John H. Weidman, Syracuse, N. Y., $11,800; Joseph H. Conners & Co., Fulton, N. Y., $12,600; J. G. Hayes & Co., Utica, N. Y., $11,165; Albert Gaffey, Syracuse, N. Y., $11,885.

Repair Contract No. 67, Moravia-Niles County Highway No. 591, Cayuga County: BRAYER BROS., Auburn, N. Y., $17,907 (awarded contract on Bermudez); Albert Gaffey, Syracuse, N. Y., $19,000; Schroeder-Hicks Co., Rochester, N. Y., $19,311.

Repair Contract No. 68, Green-Smithville Flats County Highway No. 218, Chanango County: ALBERT GAFFEY, Syracuse, N. Y., $5,800 (awarded contract); E. D. Baker, Binghamton, N. Y., $5,978.

Repair Contract No. 55, Cuyler County Highway No. 40, Cortland County: CHAMBERS & GRADY, Rochester, N. Y., $2,808 (awarded contract on Bermudez); Joseph H. Conners & Co., Fulton, N. Y., $2,350; Albert Gaffey, Syracuse, N. Y., $3,177.

Repair Contract No. 62, Orchard Park County Highway No. 272, Section 5, Erie County: JOHN E. JOHNSON, Buffalo, N. Y., $6,913 (awarded contract on residuum); F. L. Cohen, Buffalo, N. Y., $7,500; Mosier

Summers, Buffalo, N. Y., $8,000; F. V. Bardol, Buffalo, N. Y., $7,100.

Repair Contract No. 63, Transit County Highway No. 89, Section 2, Erie County: bids rejected.

Repair Contract No. 83, Gloversville-May- d County Highway No. 33, Fulton Coun- JOHN E. BURNS & CO., Boston, Mass., 964 (awarded contract on Bermudez).

Repair Contract No. 49, Redwood-Alexan- a Bay County Highway No. 182, Jeffer- County: J. P. CUNNINGHAM, Platts- rgh, N. Y., $1,164 (awarded contract on rmudez).

Repair Contract No. 50, Watertown-Sack- Harbor-Henderson County Highway No. Jefferson County: J. P. CUNNINGHAM, ttsburgh, N. Y., $21,960 (awarded con- t on Bermudez).

Repair Contract No. 57, Hamilton County hway No. 81, Section 2, Monroe County: OOD, TOMPKINS & TRUESDALE, Hilton, Y., $4,390 (awarded contract).

Repair Contract No. 58, Scottsville County hway No. 79, Section 2, Monroe County: AGARA CONSTRUCTION CO., Corning, Y., $20,613 (awarded contract on residuum).

Repair Contract No. 59, Clifton County Highway No. 78, Section 1, Monroe County: WOOD, TOMPKINS & TRUESDALE, Fulton, N. Y., $4,390 (awarded contract).

Repair Contract No. 60, Scottsville County Highway No. 63, Section 1, Monroe County: WHITMORE, RAUBER & VICINUS, Rochester, N. Y., $11,945 (awarded contract).

Repair Contract No. 61, Ridge County Highway No. 6, Section 1, Monroe County: WOOD, TOMPKINS & TRUESDALE, Hulton, N. Y., $7,785 (awarded contract on residuum).

Repair Contract No. 75, West Mohawk River County Highway No. 108, Montgomery County: ALONZO SCHAUPP, Albany, N. Y., $9,790 (awarded contract on residuum).

Repair Contract No. 85, Amsterdam-Minaville County Highway No. 32, Section 1, Montgomery County: JOHN E. BURNS & CO., Boston, Mass., $10,673 (awarded contract on Bermudez).

Repair Contract No. 48, Deerfield County Highway No. 3, Oneida County; Utica-Paris, County Highway No. 71, Oneida County: AETNA ENGINEERING & CONSTRUCTION CO., Herkimer, N. Y., $41,400 (awarded contract on Bermudez).

Repair Contract No. 52, Fabius-Apulia County Highways Nos. 49, 75, 121, Sections 1, 2 and 3, Onondaga County: JOSEPH H. CONNERS & CO., Fulton, N. Y., $15,940 (awarded contract).

Repair Contract No. 53, West Lake County Highway No. 48, Marcellus-Marietta County Highway No. 74, Onondaga County: C. T. HOOKWAY, Syracuse, N. Y., $10,360 (awarded contract on Bermudez).

Repair Contract No. 51, Gorham-Stanley County Highway No. 203, Naples-Atlanta County Highway No. 204; Naples-Woodville County Highway No. 205, Ontario County: C. AIKENHEAD CO., Rochester, N. Y., $14,258.68 (awarded contract on residuum).

Repair Contract No. 54, Honeoye-Hemlock County Highway No. 191, Ontario County: ALBERT GAFFEY, Syracuse, N. Y., $6,660 (awarded contract).

Repair Contract No. 86, Gilbertville-Mt. Upton County Highway No. 314, Otsego County: SPUYTEN DUYVIL CONSTRUCTION CO., New York, $15,080 (awarded contract).

Repair Contract No. 80, Albia-Wynantskill County Highway No. 77, Rensselaer County: All bids held.

Repair Contract No. 84, Troy-Brunswick County Highways Nos. 10, 25, Sections 1 and 2, Rensselaer County: COUNTY CONSTRUCTION CO., Troy, N. Y., $15,381 (awarded contract on residuum).

Repair Contract No. 79, Glens Falls-Saratoga County Highway No. 58, Section 1, Saratoga County: All bids held.

Repair Contract No. 81, Waterford County Highway No. 59, Section 2, Saratoga County: All bids held.

Repair Contract No. 82, Waterford County Highway No. 39, Section 1, Saratoga County: KENNEDY & EASTON CONTRACTING CO., Albany, N. Y., $1,576 (awarded contract).

Repair Contract No. 72, Saugerties-Woodstock County Highways Nos. 37, 38, Sections 1 and 2, Ulster County: JOHN E. CONSAULIS, Albany, N. Y., $46,916 (awarded contract on residuum).

Repair Contract No. 73, Kingston-Rifton County Highway No. 116, Ulster County: GENERAL CONSTRUCTION CO., Bridgeport, Conn., $13,400 (awarded contract on residuum).

Repair Contract No. 77, Loon Lake-Pottersville-Taylors County Highway No. 692, Warren County: SANTANONI CONSTRUCTION CO., Albany, N. Y., $31,505 (awarded contract on Bermudez).

Repair Contract No. 74, Granville-Troy Stage County Highway No. 104, Washington County: R. HOPKINS, Troy, N. Y., $7,435 (awarded contract on residuum).

Repair Contract No. 69, Echo Lake-Pines Bridge County Highway No. 143, Pines Bridge-Yorktown Heights County Highway No. 148, Westchester County; Yorktown Heights-Putnam County Line County Highway No. 149: All bids rejected.

Repair Contract No. 70, White Plains Cross Road County Highway No. 20, White Plains-Armonk County Highway No. 35, Westchester County; Armong-Mt. Kisco County Highway No. 50: H. B. SPROUL, Peekskill, N. Y., $55,890 (awarded contract on residuum).

Repair Contract No. 71, Mt. Kisco-Bedford County Highway No. 51, Bedford-Cross River County Highway No. 144, Westchester County; Cross River-Turk Mill County Highway No. 150: H. B. SPROUL, Peekskill, N. Y., $66,690 (awarded contract on residuum). S. Percy Hooker is Chn. of Comn., 53 Lancaster St Albany, N. Y.

NEW YORK, N. Y.—Bids are asked by Alfred E. Steers, Pres. Boro. of Brooklyn, until 11 a. m., June 22, for regulating and paving various streets in Brooklyn.

Bids are asked by the Park Board until 3 p. m., June 23, for repairing sheet asphalt or asphalt block roadway pavements where directed in the Borough of Manhattan.

NEW YORK, N. Y.—Plans have also been filed for building a 12-story factory building to be erected on the south side of 21st St., 387.5 ft. west of Sixth Ave., for the Geron Construction Co., at a cost of $150,000. The building will be fireproof, with a facade of brick, with limestone trimmings, and having a frontage of 46 ft. and a depth of 85 ft. W. G. Pigueron is Arch., 32 Union Sq.

A 4-story brick boiler house is to be built on the north side of 49th St., 155 ft. west of Lexington Ave., for the New York Central & Hudson River R. R. Co. The building will have a frontage of 95 ft. and a depth of 126.2 ft., with an extension, and the facade will be of brick trimmed with limestone. The Grand Central Architects, 413 Madison Ave., estimate the cost at $150,000.

Plans have been filed for a 12-story loft building to be used for light manufacturing, to be built at 106 to 110 Seventh Ave. It will take the place of a 4-story and basement store and dwelling and a 4-story and basement steam laundry that have been on that site. The building will have a facade of brick, with trimmings of limestone and terra cotta, and will be fireproof. It will be 53 ft. front and 99 ft. deep, by irregular. The 106 Seventh Ave. Company, Gustavus A. Beyers, Pres., is the owner. The cost is estimated at $300,000. Samuel Sass, 23 Park Row, is Arch.

NEWBURGH, N. Y.—Fred Sumner Hinds, 19 Milk St., Boston, Engr. for the mill for William Crabtree & Sons, at Newburgh, N. Y., will have plans ready to figure soon. The mill will be of brick, mill construction, two stories. The main building will be 67 × 154 ft., with a wing 49 × 62 ft., and an engine room, boiler house, and coal pocket. There will also be an underground concrete reservoir of 75,000 gallons capacity and one electric freight elevator. The owners will let all machinery contracts.

ROCHESTER, N. Y.—The Board of Contract and Supply on June 2 awarded the contract for paving Otis St. with brick to BRAVER & ALBAUGH, 27 Main East St., at $14,573.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., June 20, for the improvement of Swan St., from the north line of Sheridan Ave. to the south line of Clinton Ave., the carriageway to be paved with granite blocks; and for laying a vitrified stoneware pipe sewer under the carriageway of Alexander St. Isidore Wachsman is Secy. of the Board; Walter Melius is City Engr.

WATERTOWN, N. Y.—Bids are asked by the Board of Public Works until 8 p. m., June 17, for construction of a combined cement curb and gutter on Arlington St., from Boyd St. to Franklin St. E. W. Sayles is City Engr.

WEST NEW YORK, N. J.—Bids are asked until 8 p. m., June 21, by the Town Council for brick paving and setting curbstones. Carl Guisbach is Town Engr.

*BURLINGTON, N. J.—Bids are asked until 11 a. m., July 5, by Harry E. Dubell, Director of the Board of Chosen Freeholders, at Mount Holly, N. J., for building a gravel road from Gardner's corner, beginning at the end of the Indian Mills gravel road and running southerly to the Atlantic County line at Atsion in the County of Burlington, a distance of 4.26 miles. Earl Thomson is County Engr., 11 East Central Ave., Moorestown, N. J., or 301 Market St., Camden, N. J.

MOUNT PLEASANT, PA.—Bids will be received at the office of M. A. King, Secy. of Mount Pleasant Borough Council, until 8 p. m., June 24, for grading and curbing South Diamond and Bridgeport Sts. and paving the same with vitrified brick. Bids will be compared on the basis of the following approximate estimates of the work to be done: Bridgeport St.—Excavation, 2,512 cu. yds.; paving, 3,483 sq. yds.; straight curb, 2,592 lin. ft.; curb returns, 121 lin. ft.; rough curb, 168 lin. ft. South Diamond St.—Excavation, 1,870 cu. yds.; paving, 3,150 sq. yds.; straight curb, 2,070 lin. ft.; curb returns, 164 lin. ft.; rough curb, 240 lin. ft.

HARRISVILLE, PA.—We are officially advised that the following bids were received on June 8 by Joseph W. Hunter, State Highway Comr., Harrisburg, Pa., for the construction of 4,637 ft. of road, extending from the Mercer Township line on Mercer St. to the Mercer Township line on Franklin St., in Harrisville Boro., in the County of Butler:

Hatten & Co., Dubois, $16,325, slag bottom, Dubois & Butler W. C. block top; $16,653, slag bottom, Dubois & Butler repair brick; $17,088, limestone bottom, Dubois & Butler W. C. block top; $17,418, limestone bottom, Dubois & Butler repair block top.

Norman J. Boyer, Butler, Pa., $13,454, slag bottom, Dubois & Butler W. C. brick top; $12,795, slag bottom, Butler Brick & T. Co. W. C. brick top; $13,687, slag bottom, Bessemer repair block top; $13,784, slag bottom, Dubois & Butler repair brick top; $14,444, slag bottom, Porter National Butler repair brick top; $14,279, slag bottom, U. S. Sewer Pipe Co. repair brick top.

Standard Bitulithic Co., 50 Church St., New York, $14,865, Ligonier stone bottom, Warrenite top.

Reinhart Bros., East Liverpool, Ohio, $12,044, gravel bottom, wire cut brick or block top.

Rudolph & Means, Punxsutawney, Pa., $13,382, stone or slag bottom, Dubois & Butler W. C. block top.

Frederick Robinson, Meadville, Pa., $12,293, gravel bottom, Bradys Run W. C. or Pennsylvania clay brick top; $12,664, gravel bottom, Dubois & Butler W. C. block top; $12,994, gravel bottom, Dubois & Butler rep. block top.

McLaughlin Contracting Co., Pittsburg, $14,656.60, slag or natural stone bottom, brick top.

John Schaffner, Butler, Pa., $12,960, air cooled slag bottom, Dubois & Butler W. C. brick top; $12,630, machine slag bottom, Dubois & Butler W. C. brick top; $13,289, air cooled slag bottom. Dubois & Butler rep. block top; $13,619, air cooled slag bottom, Porter natural block top; $13,619, air cooled slag bottom, Porter block top; $13,784, air cooled slag bottom, Toronto block top; $13,289, machine slag bottom, Porter or U. S. block top; $13,455, machine slag bottom, Toronto or U. S. block top; $13,125, machine slag bottom, U. S. Sewer Pipe Co. W. C. brick top.

South Shore Construction Co., Erie, Pa., $11,950, gravel bottom, Bessemer block top; $13,434, slag bottom, Bessemer block top; $14,671, limestone bottom, Bessemer block top; $11,126, gravel bottom, Pa. Clay W. C. brick top; $12,692, slag bottom, Pa. Clay W. C. brick top; $13,929, limestone bottom, Pa. Clay W. C. brick top; $10,796, gravel bottom, Butler brick & Tile Co.'s W. C. brick top; $12,197, slag bottom, Butler Brick & Tile Co.'s W. C. brick top; $13,517, limestone bottom, Butler Brick & Tile Co.'s W. C. brick top.

*HYDE PARK, PA.—We are officially advised that bids were received by the Borough of Hyde Park, Pa., on June 9, for the following work, approximately 1,900 cu. yds. grading, 4,300 lin. ft. concrete or sandstone curb, and 5,750 sq. yds. vitrified brick or block paving. Robert H. Wilson is Engr., Saltsburg, Pa. The contract has been let to the RIDGE BROS. CO., 407 Fourth Ave., Pittsburg, Pa., at the following prices: Grading, 30 cts. per cu. yd.; concrete curbing, 50 cts. per lin. ft., and paving (Porter block), $1.40 per sq. yd.

*POTTSVILLE, PA.—Bids are asked by the Town Council until 7.30 p. m., June 28, for grading, curbing, paving, and improving Center, Railroad and connecting streets in the Borough of Pottsville. William S. Pugh is Engr. and Comr. of Highways, Morris Bldg., Pottsville.

PHILADELPHIA, PA.—Bids are asked until 11 a. m., June 21, by Maj. Chauncey B. Baker, Constr. Q. M., 26th St. and Gray's Ferry Road, Philadelphia, for construction of roadway, drain and sewer at this depot.

MINERSVILLE, PA.—We are officially advised that McCONVILLE & FITZPATRICK, 135 South Main St., Pittston, Pa., were awarded the contract on June 2 for 11,650 sq. yds. of brick paving, at $26,747. Mack block will be used.

WILKES-BARRE, PA.—The HERRICK CONSTRUCTION CO., of Stroudsburg, Pa., has been awarded the contract for the construction of $75,000 worth of new roads in Hanover Township. The contract was awarded by the supervisors on June 2. The roads will all be macadam with the standard binder.

NEWARK, DEL.—We are officially advised that bids were received on June 6 by D. C. Rose, Chn. Street Com., for constructing about 2,000 ft. of concrete curb and gutter. The contract has been let to L. B. JACOBS, of Newark, Del.

WASHINGTON, D. C.—The lowest figures for laying cement sidewalks in the District of Columbia are 92½ cts. a sq. yd. within the city limits and $1.18 a sq. yd. outside the city limits, bid by the Holton Construction Co. The contract includes about 75,000 sq. yds. of sidewalk in the District of Columbia, and the appropriation for this work is about $70,000.

ASHEVILLE, N. C.—George W. Vanderbilt has decided to construct a road, it is reported, about 20 miles in length from foot of Mount Pisgah to the summit at a cost of $20,000.

CHARLESTON, S. C.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., July 9, for gravel paving at the U. S. Navy Yard, Charleston. Specifications are on file at the office of Engineering News, New York.

FORT SCREVEN, GA.—We are officially advised that bids were received by the Constructing Q. M. on June 1 for construction of roads, walks, etc. The contract has been let to GEORGE M. GADSDEN, of Savannah, Ga., at $3,640.

MERIDIAN, MISS.—See item under buildings.

SHREVEPORT, LA.—The GULFPORT CREOSOTING WORKS, of Gulfport, Miss., has secured the contract for 40,000 yds. of creosoted block paving in Shreveport, La., at $50,000. The City Council on May 31 awarded contracts to the FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia; WARREN BROS. CO., 59 Temple Pl., Boston, Mass., and the HOT SPRINGS PAVING CO., for paving here to cost about $600,000.

SPRINGFIELD, OHIO.—PETERS BROS. CO. has secured the contract for paving Yellow, Spring and McCreight Aves., at $150,000.

MANSFIELD, OHIO.—The City Board of Control has awarded contracts for paving as follows: West Fourth St. with brick and asphalt filler, to GANDERT BROS., at $26,710; Franklin Ave., roadway with brick, tar filler, awarded to HERRING & SONS, at $9,491.

IRONTON, OHIO.—Bids were received on June 3 by the Board of County Commissioners for the improvement of the Canal-Lewisville Road as follows: John Hall, $13,525 to $15,000, according to the materials to be used; Henderson Bros., $14,500 to $15,800; J. N. Kissner, $13,920 to $15,500; T. J. Norman, $14,700 to $15,700.

CANTON, OHIO.—Bids will be received until July 6 at the office of the Commissioners of Stark County, at Canton, for grading, draining and paving with brick a mile of road in Lexington Township. J. H. McConnell is County Audr.

ATHENS, OHIO.—Ordinances have been adopted by the City Council declaring it necessary to improve Campbell Ave., from Morris Ave. to Stimpson Ave. and Stimpson Ave., from Brown Ave. to the west line of Lot 630; also declaring it necessary to improve State St., from Cemetary St. to the west end, with brick or block.

URBANA, OHIO.—Bids are asked by the Director of Public Service until noon, June 20, for improving Taft Ave., from North Main St. to Russell St. H. M. Crow is Clerk.

OAKLEY (Cincinnati post-office), OHIO.—Bids are asked until noon, June 23, by Oscar Kosche, Village Clerk, for the improvement of Martha St., from north line of Linden Ave. to Brotherton Road, and Elder Ave., from Brotherton Road to Church St., by grading, macadamizing and graveling the roadway, setting combined cement curb and gutters on both sides, etc.

DAYTON, OHIO.—Sellers & Schmitthauer were low bidders for grading and graveling Reasor Ave., from Main St. to Stillwater St., on June 7. Their proposal was $4,031.

AKRON, OHIO.—Of the bids opened by the Board of Control on June 2, H. R. Russell is the lowest bidder on the Berry Ave. improvement at $14,742 for stone curbing, $13,637 for concrete curbing and $13,506 for combination curbing and gutter. Wildes & Davidson made the lowest bid on the Main St. improvement at $8,332 for stone curbing, $8,045 for concrete curbing, and $7,739 for combination curb and gutter. P. T. McCourt, on the Maiden Lane alley, bid $3,835 for stone curb, and $3,610 for cement curbing, and Mathew McCourt made the lowest bid on the Straw St. improvement with $1,159 for stone curbing and $1,127 for cement curb.

CINCINNATI, OHIO.—Bids will be received until noon, June 20, by the Board of Public Service for furnishing material and improving a portion of Wilson Ave., from Erkenbrecker Ave. to Hearne Ave., by setting cement combined curb and gutter, paving gutters with brick, macadamizing the roadways, etc. John J. Wenner is Clerk.

The contract for paving with asphalt, Livingston St., from Baymiller St. to Linn St., has been let to BARBER ASPHALT PAVING CO., First National Bank Bldg., Cincinnati, at its bid of $4,061, and to A. J. BREHM, the contract for paving with granite that part of Livingston St. between Linn St. and Central Ave. at his bid of $12,524.

SANDUSKY, OHIO.—We are officially advised that bids will be received on July 14 for improving three streets. Robert B. Smith is City Engr.

WAPAKONETA, OHIO.—Bids will be received until June 24 by Fred. A. Kippel, Clerk, for the necessary labor and material for paving in Wapakoneta with various kinds of materials. We are officially advised that the estimated cost is $21,574. George Champe, Nasby Bldg., Toledo, Ohio, is Engr.

CRAWFORDSVILLE, IND.—The Commissioners of Montgomery County have let a contract for the construction of 2¾ miles of rock road, known as the Mike Woods Road, to PATRICK & JOHN LANE at $9,865.

PRINCETON, IND.—Bids will be received by the Commissioners of Gibson County until noon, July 5, for the construction of the following rock roads and extensions of roads already built: The Princeton road, 16½ miles in length, including Main and Broadway Sts., in Princeton; 3¾ miles in Patoka Township; 2½ miles in Johnson Township; 6½ miles in Montgomery Township and 2.4 miles in Columbia Township.

GREENCASTLE, IND.—D. V. Moffett, Audr. of Putnam County, will receive sealed bids until 2 p. m., July 5, for the construction of the following gravel and macadam roads: The Rader gravel road, 11,733 ft. in length in Washington Township; the Bunten macadamized road, 11,252 ft. in length in Marion Township; the Watson macadamized road, 7,324 ft. in length, in Greencastle and Monroe Townships; the Lemmick macadam road, 1,121 ft. in length, in Greencastle and Warren Townships.

LOGANSPORT, IND.—The Commissioners of Cass County are asking for bids until 2 p. m., July 6, for the construction of 26,000 ft .of macadamized road on the line between Noble and Harrison Townships, known as the A. O. Brandt road. George W. Cann is County Audr.

LOGANSPORT, IND.—We are officially advised that bids were received on June 9 by Joint Board of Commissioners of Cass and Carroll Counties, at Logansport, for constructing 21,446 ft. of free gravel road on line between Cass and Carroll Counties. George W. Cann, Audr. of Cass County, Logansport; M. G. Hawn, Audr. of Carroll County, Delphi. The contract has been let to GRANEL & BARNES, of Logansport.

DANVILLE, IND.—The Board of Commissioners of Hendricks County will receive bids until 10 p. m., July 5, for the construction of 7,893 ft. of gravel road, known as the John P. Street road in Union Township; also for the completion of the Todd road in Center Township. William H. Nichols is County Audr.

VINCENNES, IND.—Bids will be received by the Commissioners of Knox County until 2 p. m., July 5, for the construction of 5,736 ft. of gravel road in Vigo Township, known as the Hale road, and 6,400 ft. of gravel roads in Harrison Township, known as the Wallen road. John T. Scott is County Audr.

MUNCIE, IND.—The Commissioners of Delaware County will receive bids until 10 a. m., July 6, for the construction of a crushed stone road, known as the Smith road in Center Township. Joseph E. Davis is County Audr.

TIPTON, IND.—The Commissioners of Tipton County will receive bids until 10 a. m., July 5, for the construction of 5,262 ft. of gravel road, known as the Rheubert road in Madison Township, and also the Holman rock road, 10,535 ft. in length, in Liberty Township. J. F. Barlow is County Audr.

RUSHVILLE, IND.—Bids will be received by the Commissioners of Rush County until 2 p. m., July 5, for the construction of a macadam road, known as the Chester George

road, in Noble Township. Jesse M. Stone is County Audr.

The Commissioners of Rush County have awarded a contract to the ADAMS CONSTRUCTION CO. for paving with brick three streets under the Three Mile Law.

MARION, IND.—A contract for the construction of a boulevard to the Soldiers Home, 5,870 ft., has been awarded to L. C. LILLARD at $32,254, and a contract for paving 38th St., 7,000 ft., with Marion block, to O. J. SIMMONS, at $36,790.

INDIANAPOLIS, IND.—Plans and specifications have been ordered on which bids will be asked for the improvement of the following streets: Newton Ave., from Rural to La Salle Sts., with gravel roadway and curbing; Northwestern Ave., from 15th to 21st Sts., with brick; Washington Boulevard, from 40th to 47th Sts., wooden block cement curb, and Gladstone Ave., from Washington to Michigan Sts., with brick; local sewers in alley north of 33d St., local sewer in Beecher St., local sewer in alley north of 35th St., local sewer in alley east of Linden St., local sewer in alley east of Olney St., local sewer in College Ave.

WABASH, IND.—The contracts for construction of a gravel road on the line dividing Wabash and Huntington and Whitney Counties and a gravel road on the line dividing Wabash and Huntington Counties, has been awarded to WM. REFFERT, of Monroeville, Ind., at $11,909 and $19,111, respectively.

DETROIT, MICH.—The Common Council has directed the Department of Public Works to advertise for proposals for paving the following streets: Chicago Boulevard, from Woodward Ave. to Hamilton Boulevard, with sheet asphalt, estimated cost, $46,400; Butternut St., from Trumbull to Harrison Aves., with cedar blocks, estimated cost, $6,136. All on concrete foundations with Medina, Borea or other approved curbing. Also for paving three alleys with vitrified brick, estimated cost, $1,500, $2,250 and $3,340 each. J. J. Haarer is Comr., City Hall.

On June 1, J. J. Haarer, Comr. of Public Works, received bids for six paving contracts. The lowest bids follow: Perry St., 16th to Humboldt, brick, Ferd Porath & Son, $2.497 per yd., $9,019; 24th St., Hancock to Merrick, brick, Ferd Porath & Son, $2,622 per yd., $8,645; State St., Cass to First, brick, Ferd Porath & Son, $2.774 per yd., $2,479; Eighth St., Fort to Michigan, brick, Ferd Porath & Son, $2.633 per yd., $19,574; Chestnut St., Riopelle to Dubois, brick, James Hanley, Pennsylvania Bank Bldg., $2.589 per yd., $14,350; Cass Ave., Woodbridge to Jefferson, granite block, Thomas E. Currie, Pennsylvania Bank Bldg., $3.88 per yd., $2,163.

MARSHALL, ILL.—Bids will be received until 3 p. m., June 20, by the Board of Local Improvements for 11,800 sq. yds. of brick pavement, cement filler and 5,210 lin. ft. combined curb and gutter. W. R. Paige is Consult. Engr., Rose Dispensary Bldg., Terre Haute, Ind.

DE LAND, ILL.—We are officially advised that the East St. Louis Engineering Co. is preparing estimates and plans for ⅝ of a mile of street paving at DeLand, Ill.

ELGIN, ILL.—The contract for the paving of Spring St. with mineral rubber has been let to the McCARTHY IMPROVEMENT CO., of Davenport, Iowa. The bid was $52,875.

*WAUKESHA, WIS.—Bids are asked by the Board of Public Works until July 11 to pave with a tar macadam pavement and a combination concrete curb and gutter White Rock Ave., East Park Ave., Cook St. and Center St., and Lincoln Ave. with a brick pavement on a concrete base between the tracks of a double track railway and with tar macadam between tracks and gutter. Engineer's estimatt as follows: 15,450 cu. yds. excavation, 31,139 sq. yds. macadam, 21,435 lin. ft. curb gutter, 5,770 sq. yds. brick paving, together with the necessary drains, foot bridges and catch basins. Morgan R. Butler is City Engr.

SUPERIOR, WIS.—The City Council has awarded the contract for paving with brick Belknap St. to E. JOHNSON at $67,005.

FORT DODGE, IOWA.—Bids will be received until June 20, by W. L. Tang, City Clk., for constructing about 29,500 sq. yds. of concrete pavement on 5-in. foundation and 2-in. wearing surface and about 16,200 lin. ft. of curb.

ALBIA, IOWA.—Bids are asked until 2 p. p. m., June 27, for paving in this city. Hall & Adams, of Centerville, Iowa, are Engrs. Former bids received for part of this work have been rejected. C. C. Atcheson is City Clerk.

RED OAK, IOWA.—We are officially advised that all bids received on June 8 for 50,000 sq. yds. of bitumenized macadam pavement and 17,000 lin. ft. of curb have been rejected. The City Clerk has been ordered to advertise for 25,000 sq. yds. of brick paving on a concrete base and 17,000 lin. ft. of curbing. Theodore S. De Lay, of Creston, Iowa, is Engr.-in-Charge.

OSAGE, IOWA.—Bids were received on May 31 by the City Clerk for concrete paving, about 28,353 sq. yds., 8,160 lin. ft. cement curb, etc. S. B. Gardner is Engr., Eldora, Iowa. The contract has been let to DEARBORN & HAMILTON, of Cedar Rapids, Iowa, at $1.39 a sq. yd.

MINNEAPOLIS, MINN.—Bids are asked until 11 a. m., June 20, by Hugh R. Scott, Audr. of Hennepin County, for graveling Road No. 6.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until noon, June 21, for letting No. 9867: For reconstructing Rauschenbach Ave., from Benton St. to Hebert St., by taking up and removing the old curb and gutter, crosswalks and such portions of the roadway pavement as are above the proper grade of the foundation, furnishing granite curbing and setting the same in concrete, preparing the roadbed, laying a concrete base, placing on the same a layer of sand and a roadway pavement of Southern long-leaf yellow pine blocks, treated with creosote oil, making all proper connections and intersections with other streets and alleys. Maxime Reber is Pres.; W. B. Dryden is Secy.

DALLAS, TEX.—The MUNICIPAL PAVING CO., of Dallas, has secured the contract for repaving with creosoted wood blocks on Elm St., at $48,463. The contract for paving with creosoted wood blocks a portion of Commerce St. has been awarded to OCKANDER BROS., at $34,982.

PARIS, TEX.—Bids are asked until 1.30 p. m., June 17, by Judd W. Wright, City Secy., for paving Lamar Ave. in said city, with rock asphalt, bitulithic or other bituminous pavement. Edward D. McCuistion is Mayor.

OKLAHOMA CITY, OKLA.—Contracts have been let for grading the Oklahoma City Boulevard in the Northeast District to BENNETT & ACKLAND. The work will cost $30,000. The contract for the dam in the same district will be awarded soon. W. C. Burke is City Engr.

DENVER, COLO.—Bids were received on June 2 by the Board of Public Works for Arlington Park Improvement District No. 1. The streets are to be graded, concrete curbs and gutters put in and surfaced with slag and disintegrated granite. PUEBLO CONSTRUCTION CO., Railroad Bldg., $80,805 (awarded contract); Gaffey & Keefe Construction Co., $85,952, and J. Fred Roberts, $92,737. The Board of Public Works has awarded the contract for Alley Paving District No. 21 to the NATIONAL CONSTRUCTION CO., 435 Empire Bldg., for $16,782.

PORT TOWNSEND, WASH.—Bids are asked until 4 p. m., June 28, by George Anderson, City Clerk, for the construction of Local Improvement District No. 3, consisting of grading, concrete sidewalks, brick pavement, retaining walls, etc., as follows: 5,780 sq. yds. of brick pavement, 10,740 sq. yds. of concrete sidewalks, 9,052 lin. ft. of curbs and gutters, 12,650 cu. yds. of excavation, 21,700 cu. yds. of fill, 3,800 cu. yds. of concrete (plain and reinforced) for retaining walls.

TACOMA, WASH.—The following bids are reported for paving portions of South L, South Eighth, South Ninth and South Tenth Sts.: Independent Asphalt Paving Co., National Bank of Commerce Bldg., $51,443; Warter Bros., $54,500; Anderson Construction Co., $56,696; B. W. Kibler, $58,600; N. A. Jones, $56,333; Coast Contracting Co., 1718 Pacific St., $52,190; BARBER ASPHALT PAVING CO., $50,264 (awarded contract).

OLYMPIA, WASH.—Bids are asked until 2 p. m., June 21, by the Highway Board for clearing, grubbing, grading and draining State Aid Road No. 78, known as the Everett-Bothell Road in Snohomish County; for clearing, grubbing, grading and draining State Road No. 2, Stevens County; for surfacing with gravel or crushed rock State Road No. 5, Lewis County, Wash. Henry L. Bowlby is Secy.

SAN DIEGO, CAL.—The contract for the construction of a 25-ft. disintegrated granite road, etc., at Fort Rosecrans has been awarded to the KNIGHT & HYDE CONSTRUCTION CO. at $29,151.

STOCKTON, CAL.—The lowest bid received by San Joaquin Highway Commission was submitted by Cyrus Moreing, Sr., for macadamizing roads as follows: Waterloo Road, 10½ miles, $57,779; Linden Road, 10½ miles, $41,075; French Camp Road, 4½ miles, $12,079; West Side Road No. 1, $17,779; West Side Road No. 2, 11½ miles, $74,294.

LOS ANGELES, CAL.—Bids are asked by the County Board of Supervisors for improving portions of Redondo and Wilmington Road; also for the improvement of portions of the Hollywood-Tolusa Road. C. G. Keyes is Clerk.

The following bids were received by the County Board of Supervisors for the improvement of the Los Angeles, Inglewood and Hermosa Beach Road: Garnsey & Pitzer, Section 1, grading and culverts, $12,998; oil macadam (25,232 tons), $1.69 per ton; Section 2, grading and culverts, $6,897; oil macadam (9,272 tons), $1.69 per ton; A. C. St. John, 1017 Ingraham St., $12,000, $5,600.

For improving the San Fernando Road: Peter Walker, I. W. Hellman Bldg., grading and culverts, $16,055; oil macadam (34,417 tons), $1.48 per ton; Class A, concrete, $13 per cu. yd.; Class C, concrete, $12; steel, 4 cts. lb. A. C. St. John, $28,100, $1.65 per ton, $12 cu. yd., $11, steel, 5 cts. per lb.

The Board of Public Works has awarded the following contracts for street work: To JOY & LESHER, for improving Angelica St., $4,637; to the BARBER ASPHALT PAVING CO., for improving Tenth St., $25,410; to CECALA FRANCESCA, for improving Figuerroa St., $7,418; to C. W. BRASHEAR, for improving Beaudry Ave., $3,671, and on Figuerroa St., $5,261.

LOS ANGELES, CAL.—Emil Firth has awarded contract to R. H. McCRAY, 234 West 28th St., for grading, oiling, constructing cement curbs and sidewalks in the Arlington Sq. tract. Cost, $17,000.

RIVERSIDE, CAL.—The JOHNSON-SHEA CO. has been awarded contract at $9,870 for improving Mulberry St.

SOUTH PASADENA, CAL.—The city has authorized the improvement of Palm Ave., from Mission St. to the northern city limits, by grading and curbing, and constructing cement gutters thereon; also the construction of a bridge, 80 ft. long, across the Salt Lake R. R. right-of-way. Bids will be called for soon.

LONG BEACH, CAL.—The City has ordered the grading and paving of Larut St. and the construction of cement curbs and gutters thereon; also the grading and paving of Appleton St. and Railway St. and constructing thereon cement curbs and gutters and reinforced-concrete culverts. W. J. Desmond is Pres. Bd. of Public Works.

INGLEWOOD, CAL.—The City has ordered the grading, graveling and oiling of Regent St. and the construction of cement curbs and a concrete culvert thereon. E. D. Morrison is City Clerk.

PRESCOTT, ARIZ.—We are officially advised that the contract for constructing 13 miles of road from Prescott toward Phoenix, Ariz., has been awarded to the JOHNSON-SHEA CO., of Riverside, Cal., at $24,000. J. B. Girard is Territorial Engr.; R. A. Craig is Secy. Bd. of Control, both at Phoenix.

PHOENIX, ARIZ.—M. L. VIEUX has been awarded a contract to construct one mile of cement sidewalks in the new addition of the Hartraft-Tweed Co.

BOISE, IDAHO.—We are officially advised that bids were received as follows on May 28 by the Board of Public Works for paving in this city:

Asphalt, (a) without guarantee, (b) with 5-year guarantee—Coast Contracting Co., 1718 Pacific St., Tacoma, Wash., (a) $324,708, (b) $346,894; P. J. McHugh, Third and Mercer Sts., Seattle, Wash., (a) $327,892, (b) $327,892; Pacific Paving Co., Seattle, Wash., (a) $301,761, (b) $316,552; Barber Asphalt Paving Co., Boise, (a) $332,600, (b) $317,391.

Concrete—J. Gustoffson, Boise, $225,076; Coast Contracting Co., Tacoma, $227,159; P. J. McHugh, Seattle, $254,008.

Granitoid, (a) without guarantee, (b) with 5-year guarantee, (c) with 10-year guarantee—R. S. Blome Co., 79 Dearborn St., Chicago, Ill., (a) $373,607, (b) $381,003, (c) $395,794.

Bitulithic, (a) stone base without guarantee, (b) stone base with 5-year guarantee, (c) stone base with 10-year guarantee, (d) concrete base without guarantee, (e) concrete base with 5-year guarantee, (f) concrete base with 10-year guarantee—Warren Construction Co., Portland, Ore., (a) $350,392, (b) $360,746, (c) $375,537, (d) $365,183, (e) $375,537, (f) $390,328.

No bids were received for brick paving. Karl Paine is Pres. Bd. Pub. Wks.

ST. JOHN, N. B.—R. S. LOW, of Gloucester, Mass., has been awarded a contract for granite block paving. It is stated the work involves an expenditure of about $70,000. William Murdoch is City Engr.

OTTAWA, ONT.—The BARBER ASPHALT PAVING CO., 30 Church St., New York, has secured paving contracts here as follows: St. Patrick St.: City Engineer's estimate, $50,522; Union Construction Co., $50,750; Ottawa Construction Co., $49,495; Barber Asphalt Co., $45,750. Bank St.: City Engineer's estimate, $47,673; Union Construction Co., $41,765; Ottawa Construction Co., $37,989; Barber Asphalt Paving Co., $37,565. N. J. Ker is City Engr.

MEDICINE HAT, ALTA.—About $35,000 worth of paving is to be done by the city, mostly concrete sidewalks. The work is to be done by day labor. A. K. Grimmer is City Engr.

NEW WESTMINSTER, B. C.—The PACIFIC CONTRACTING & INVESTMENT CO. has been awarded a contract for cement walks in this city at $13,297.

NANAIMO, B. C.—W. H. WORSWICK, of Victoria, B. C., has been awarded the contract for constructing eight miles of concrete walks in this city.

MANUFACTURING PLANTS.

*(*denotes that this work is advertised in Engineering News.*)

BROCKTON, MASS.—The Old Colony Street Ry. Co., of Boston, will erect a car house, 280 × 134 ft. with a 10-track entrance, at the corner of Torrey and West Sts., Brockton. It is stated that construction will begin at once. C. F. Bancroft, Boston, is Supt. of Motive Power, Boston.

NORTH BROOKFIELD, MASS.—We are officially advised that plans are being figured for an addition of the Oxford Linen Mills, consisting of three buildings: Weave shed, 150 × 300 ft., of mill construction, with saw-tooth roof; bleach house, 60 × 150 ft., brick and steel, and a finishing building, 60 × 137 ft., reinforced concrete and steel. B. S. Brown, 161 Devonshire St., Boston, Mass., is Engr.

IPSWICH, MASS.—Lockwood, Greene & Co., 93 Federal St., Boston, Mass., will have plans ready for estimates at once for an addition to the Ipswich Mills at Ipswich, Mass., four stories, 83 × 87 ft., of brick, mill construction.

LAWRENCE, MASS.—The ABERTHAW CONSTRUCTION CO., 176 Federal St., Boston, Mass., has been awarded the contract for the plain and reinforced concrete work in the additions to the Pacific Mills, Lawrence, Mass. There will be nearly 16 acres of concrete floors including the following: Printing building, 720 × 85 ft., two floors and columns; dye house, 994 × 251 ft., one floor and roof; finishing building, 600 × 90 ft., three floors, mushroom construction; the floors of the power station, 330 × 85 ft., and a coal pocket. L. E. Locke, of Lawrence, Mass., is the Gen. contractor for the brick and timber work, and Lockwood, Greene & Co., 93 Federal St., Boston, are the Archs.

WEBSTER, MASS.—We are officially advised that the Stevens Linen Co., of Webster, Mass., is having plans prepared by Charles T. Main, Mill Engr. and Archt., 201 Devonshire St., Boston, Mass., for additions and alterations to its plant. There will be a hackling and carding building, 289 × 70 ft., two stories, with elevator tower at the southern end with a runway connecting to present Mill No. 2. Two buildings will be torn down to make room for this building. South of present Mill No. 2 will be erected a spinning and weaving building, 197 × 76 ft., three stories and basement. These buildings will be of standard, slow burning mill construction, the exterior wall of grey brick to match as nearly as possible the present buildings. A section of No. 3 Mill, 46 ft. long, will be torn down and a blacksmith shop of one story over a very high basement will be erected in its place. The west wall of the engine room will be torn out and a steam turbine room built on. The boiler house is to be altered and extended to accommodate two additional boilers and the coal pocket extended to take care of the additional requirements. The office building is to have an additional story and will be connected by a bridge to the weaving and spinning building. Plans will be ready for bidders soon.

NEWTON UPPER FALLS, MASS.—Lockwood, Greene & Co., Engrs., 93 Federal St., Boston, Mass., have plans ready for figures for a machine shop for the Saco-Pettee Co., at Newton Upper Falls, Mass., one story, with saw-tooth skylight, 135 × 200 ft., of brick, mill construction; also an addition to the card grinding shop 82 × 43 ft.

HOLYOKE, MASS.—Thaddeus Cahill, electrical music mochinery manufacturer, is planning to erect a plant, and decision as to location and capacity has been reached. The concern is now located in the Crocker-McElwain mill in Cabot St.

WATERBURY, CONN.—The Bristol Co., manufacturers of belt hooks, electrical instruments and machinery, at Waterbury, has had plans drawn for an additional 3-story brick factory. The contract will be awarded soon.

We are officially advised that at the office of Charles H. Preston, Jr., C. E., 136 Grand St., Waterbury, Conn., bids were opened on June 4 for a transfer freight station for the Plume & Atwood Mfg. Co., to be built of reinforced concrete and heavy mill construction. There were five bidders, the TRACY BROS. CO., of Waterbury, was lowest and secured the contract.

BEACON FALLS, CONN.—The TRACY BROS. CO., of Waterbury, Conn., has received the contract for the erection of an addition to the plant of the Homer D. Bronson Co., of Beacon Falls, manufacturers of sheet bronze and brass goods.

NEW YORK, N. Y.—Refrigeration: See item under Buildings.

BUFFALO, N. Y.—The J. W. Pohlman Foundry Co., J. W. Pohlman, Pres., has completed plans for a 2-story warehouse and office building, 32 × 130 ft., of brick and concrete, to be added to its plant at Baitz Ave. and the Erie R. R.

The Kimo Polish Co. has completed plans for a factory building, 48 × 150 ft., two stories of brick, steel and concrete, which it will erect at Main St. and Fillmore Ave. W. R. Hollingshead is Mgr., 297 Huntington Ave.

PITTSBURG, PA.—The Pittsburg Railways Co. is asking bids for the erection of the proposed car barn at Forbes St. and Craft Ave. The barn will be one story high, of brick construction and will have an area 206 ft. square. P. N. Jones is Gen. Supt.

WEST CHESTER, PA.—P. J. RILEY, of West Chester, has secured the contract from the Rockwell Mfg. Co., for the erection of the brick factory building on the site purchased of the Parker Estate at Chestnut Knoll, on the Frazer Branch of the Pennsylvania R. R., in West Goshen Township. The concrete foundations are about completed. The building will be about 60 × 140 ft., three stories in height.

PHILADELPHIA, PA.—Estimates are being asked for the erection of a machine shop, 225 × 312 ft., at 46th St. and Lancaster Ave., for the Standard Roller Bearing Co. Cost, $110,000.

WASHINGTON, D. C.—We are officially advised that the Arcade Co., of Washington, has a permit for a market, including cold storage department. The contract for refrigerating machinery has been let to the FRICK CO., of Waynesboro, Pa. The company is in the market for steam boilers, generators for small electric plant, also market equipment, counters, stands, trucks, meat racks, etc. Averill & Adams are Archs., Union Trust Bldg., Washington.

LIBERTY, S. C.—The Calumet Mfg. Co., of Liberty, S. C., plans to double its capital stock and erect an addition to its buildings. This addition will be two stories high and is to be equipped with machinery, the extent of which is now being considered. The company's present capital is $78,200 and it is operating an equipment of 8,200 ring spindles, by steam power, on the production of yarns.

ATHENS, GA.—The Athens Electric Ry. Co. has awarded a contract to the FOY PROCTOR CO., of Nashville, Tenn., for building a reinforced concrete car house. Plans are being prepared by J. W. Barnett, Athens. C. L. Proctor, Athens, is Gen. Mgr.

BIRMINGHAM, ALA.—Ground has been broken for the shops to be constructed by the Louisville & Nashville R. R. Co., at Boyles, a suburb of Birmingham. The construction of the plant will be under the supervision of T. E. Brooks, Div. Supt., Birmingham. The shops will cost about $700,000. Noted on Jan. 27.

LOUISVILLE, KY.—See item under Buildings.

TOLEDO, OHIO.—M. RABBITT & SONS have the contract for the round-house and machine shop which the Cincinnati, Hamilton & Dayton Ry. Co. is to erect at Oakdale Ave. and Miami St. This building is to be 450 ft. long, 91 ft. wide and 20 ft. high, and is to be of brick construction. It will cost about $100,000. F. H. Alfred is Ch. Engr., Cincinnati, Ohio.

CINCINNATI, OHIO.—A 15-story factory building is to be built by Frank Zumstein, Lyric Theatre Bldg., at a cost of $250,000.

XENIA, OHIO.—Plans have been made by the firm of George Dodds & Sons for the erection of an addition to their marble plant.

SPRINGFIELD, OHIO.—Plans have been approved for a 4-story addition to the plant of the Crowell Publishing Co.

EVANSVILLE, IND.—The Vulcan Steam Shovel Co. is ready to receive bids for the erection of a factory building.

SOUTH BEND, IND.—The Vacuum Ice Engineering Co., recently incorporated, will build and install an artificial ice plant. The capital stock is $50,000. W. F. Eger, S. A. Noble and C. S. Taylor are Dirs.

BEECH GROVE, IND.—We are officially advised that the Cleveland, Cincinnati, Chicago & St. Louis Ry. Co. has awarded the following contracts for shop at Beech Grove: Construction of buildings to the WARREN CONSTRUCTION CO., 98 Jackson Boulevard, Chicago, Ill.; fabrication and erection of steel work to the McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa.; sewer, water and tunnel system to the CARSON-PAYSON CO., of Danville, Ill. William Garstang is Supt. of Motive Power, Indianapolis.

RICHMOND, IND.—The incorporation of the Richmond Underwear Co., of Richmond, Ind., is announced and the company will proceed at once to erect a new mill in that city at a cost of $100,000. About 100 operatives will be employed at first. Some of the machinery has been ordered.

MARION, IND.—The Marion Carpet Sweeper Co. will soon ask for bids for the construction of a factory building on the site of the factory recently destroyed by fire.

DETROIT, MICH.—Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, have let the folowing contracts for the Packard Motor Co., S. B. Walden, Gen. Mgr., East Grand Boulevard and Belt Line, for the new 1 and 2-story forge building, 500 × 80 ft.; cost, $50,000: Masonry, to A. J. SMITH CONSTRUCTION CO., Hammond Bldg.; carpentry to MARTIN HINGLE, 208 Champlain St.; structural work to H. B. LEWIS, 45 Joseph Campau.

The same architects have let the following contracts for the San Telmo Cigar Co., O. Rosenberger, Gen. Mgr., 540 Forrest Ave. East, for the 4-story cigar factory, 95 × 100 ft.: Structural iron work and masonry to PUTMAN & MOORE, Penobscot Bldg.; carpentry to M. HINGLE, 208 Champlain St.; painting to ANDERSON & PIPP, 180 Grand River Ave.

Varney, Winter & Varney, 58 Equity Bldg., have let the following contracts for the Swift Auto Co., W. R. Boalter, Mgr., 1120 Chamber of Commerce Bldg., for a 2-story factory, 300 × 60 ft.: Structural iron to F. J. DAIGLE IRON WORKS, Congress St. and Fourth Ave.; carpentry to F. A. ALBRECHT, 55 Moran St.; composition roofing to AMERICAN ROOFING CO., 634 Gratiot Ave.

JOLIET, ILL.—See "Elgin, Joliet & Eastern" item under Railways.

BERLIN, WIS.—The Russel Glove Co. will erect a factory building to replace the one recently destroyed by fire. The building will be 60 × 120 ft. and two stories in height.

ST. PAUL, MINN.—The Great Northern Ry. Co. has postponed all of its construction work for an indefinite date, according to press reports. It is said that nearly $1,000,000 worth of work was originally planned in the office of the company's architect, S. L. Bartlett, for various points. Contractors who have already begun operations on several projects have been notified to stop work. A. H. Hoagland is Ch. Engr., St. Paul.

OMAHA, NEB.—The Nebraska Traction & Power Co., Omaha, will let contracts soon for building a new car house and office building at Ralston. George D. Rice is Gen. Mgr.

DENISON, TEX.—The Missouri, Kansas & Texas Ry. System is preparing to rebuild its burned shops here. Five buildings will be erected at a cost of $200,000. S. B. Fisher is Ch. Engr., St. Louis, Mo.

DAVENPORT, OKLA.—T. S. Watts and M. J. Baugus will erect a brick manufacturing plant here with a daily capacity of from 20,000 to 30,000 bricks.

ALBUQUERQUE, N. MEX.—The Charles Ilfeld Co. will erect a $50,000 warehouse, reinforced-concrete ice plant, cold storage plant.

MADRAS, ORE.—J. C. Robinson has decided to build a machine shop and auto garage.

LONG BEACH, CAL.—The Los Angeles Steel & Malleable Iron Co., Delta Bldg., will erect a factory, either at Long Beach or San Pedro, for the manufacturing of a patented railroad angle, steel and iron castings, etc. About 300 hands to be employed.

CHINO, CAL.—The RICHARDS-NEUSTADT CO., Wright & Callender Bldg., Los Angeles, have been awarded a contract, at $10,430, for the construction of a 1-story brick and steel pulp house at Chino for the American Beet Sugar Co.

SAN BERNARDINO, CAL.—Bids are being received by the Engineering Department of the Atchison, Topeka & Santa Fe Ry. Co. for construction of a main shop building at San Bernardino. The building will be 120 × 510 ft. and will have a steel frame and fire walls of either concrete or brick. H. L. Wall is Supt. of Shops, San Bernardino.

POINT RICHMOND, CAL.—H. A. Joslyn, Supt. of Constr. of the Pullman Co., has received instructions from the Chicago headquarters, 6 Adams St., to make the plant larger than it was at first intended. The company had arranged to erect four buildings, but has decided to increase that number to seven. The size of the buildings now under construction is from 200 × 350 to 400 ft. in ground area. They are all three stories in height, built of reinforced concrete and pressed brick. In order to resist possible earthquake shocks, a system of steel braces have been installed, making the buildings unusually strong. The work on the additional buildings will be started as soon as the necessary material and men can be obtained. Richmond Dean is Gen. Mgr.; Somner Smollett is Engr. Noted fully on April 7.

PHOENIX, ARIZ.—C. D. Young and A. F. McAlleb will erect an alfalfa feed mill here on 16th Ave. Cost, $100,000.

BRANTFORD, ONT.—The Cockshutt Plow Co. will make extensions to its local plant this summer aggregating about $350,000. Warehouses will also be erected at Brandon, Sask., Calgary, Alta., and the one at Regina enlarged. The number of local employes will be increased from 700 to 1,200 by next winter.

MOOSE JAW, SASK.—The Gordon, Ironsides & Fares, Ltd., has decided upon Moose Jaw for the western plant. Work will be commenced soon on the proposed buildings.

TAMPICO, MEX.—LEE & WOODYARD have the contract for the construction of the flour mill to be built here for the Compania Harinera del Golfo, S. A. The mill will have a 350-bbl. daily capacity. The buildings will be of reinforced concrete.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

		Noted in issue of
6-17*	Hydroelectric plant, etc., Idaho Falls, Idaho	5-26
6-17*	Street lighting, Washington, D. C.	6- 9
6-17	Franchise, Fulton, N. Y.	6- 9
6-21	Power plant, Monticello, Iowa	6- 2
6-22	Lighting fixtures, Washington, D. C.	6- 2
6-24	Ventilating, Carrington, N. Dak.	6- 9
6-24	Lighting fixtures, Washington, D. C	6-16
6-27	Light and heat system, Delaware, Ohio	6- 9
6-27	Elec. light plant, Stafford, Kan.	6-16
6-27	Street lighting, Luray, Va.	6-16
6-27*	Conduit, etc., St. Louis, Mo.	6- 2
6-27	Heating and ventilating, New York	6-16
6-29*	Power plant, Cleveland, Ohio	6- 2
6-30	Power plant, Cisco, Utah	5-19
6-30	Power plant, Cisco, Utah	5-19
7- 6	Franchise, Bodie, Cal	6- 9
7-11*	Heating plants, etc., Atlanta, Ga.	6-16

Bridges.

		Noted in issue of
6-17	Superstructure, Cincinnati, Ohio.	5-26
6-17	Bridges, Elyria, Ohio	6- 9
6-17	Bridge, Bridgeport, Conn	6-16
6-18	Superstructure, Sidney, Ohio	6-16
6-18	Bridges, Bessemer, Mich	6-16
6-20	Bridges, Cornwall, Ont	6-16
6-20	Bridge, Mauch Chunk, Pa	6-16
6-20	Bridge, Greenfield, Ind	5-19
6-20	Bridges, Cedartown, Ga	6- 2
6-20	Bridge addition, Hartford, Conn.	6-16
6-21*	Bridge work, St. Louis, Mo	5-19
6-22	Bridge work, Cleveland, Ohio	5-26
6-22	Bridges, Tulsa, Okla	6- 9
6-22	Bridges, Fergus, Ont	6-16
6-22	Bridges, Pittsburg, Kan	6-16
6-22	Bridge, Spartanburg, S. C	6-16
6-23	Abutment, West Vernon, Ohio	6-16
6-23	Bridge, Reading, Pa	6- 9
6-23	Bridge, Greenfield, Mass	6-16
6-24	Bridge, Taylor's Falls, Minn	6- 9
6-25	Bridges, Cleveland, Ohio	6- 9
6-25	Bridge, San Antonio, Tex	6- 2
6-27	Bridge, Niles, Ohio	6- 9
6-27	Bridge, Hubbard, Ohio	6- 9
6-27	Piers, Pittsburg, Pa	6- 9
6-28*	Bridge, Winnipeg, Man	5- 5
7- 2	Bridge, Washington C. H., Ohio	6-16
7- 5	Bridges, Arcadia, Tex	6-16
7- 5	Bridge, Stevenson, Wash	5-12
7- 6	Bridges, Metz, Cal.	5-26
7- 6	Bridge, Templeton, Cal	6- 9
7- 6	Bridges, Council Grove, Kan	6- 9
7- 7	Bridge, Oil City, Pa	6-16
7- 9*	Bridge, Huron, Ohio	6- 9
7-16	Bridge, Edwardsport, Ind	6-16
7-18*	Bridge, Columbus, Ga	6-16
7-25	Bridges, Leesburg, Va.	5-26
7-28	Bridge work, Alexandria, La	6-16

Buildings.

		Noted in issue of
6-17	Quarters, Ft. Gill, Okla	6- 9
6-19	Plans, Milwaukee, Wis	5-26
6-20*	Post-office, Columbus, Ind	5-19
6-20	School, Bloomingdale, Ind	6- 2
6-20	Boiler, Baltimore, Md	6- 9
6-20	Schools, New York	6- 9
6-20	Ice and refrigerating plant, Philippines	6- 9
6-21	Building, Madison, Wis	6-16
6-22	Hospitals, New York	6-16
6-22	Dormitory, Wilberforce, Ohio	6-16
6-23	Post-office, Clinton, Mo	5-26
6-24*	Post-office, Aiken, S. C	5-24
6-25	Foundation, Boston, Mass	6- 2
6-25	Houses, Stellarton, N. S	6-16
6-27	School, Delaware, Ohio	6-16
6-27	Post-office, Minneapolis, Minn	5-26
6-27	School, New York	6- 9
6-28*	Post-office, Plattsmouth, Neb	5-26
6-28	School, Princeton, Ind	6-16
6-29	Post-office, Chambersburg, Pa	6- 2
6-30*	Post-office, Greenville, Ill	5-26
6-30	Plans, Saskatoon, Sask	6-16
7- 1	Plans, New Orleans, La	3-17
7- 1	Post-office, Jeffersonville, Ind	6- 2
7- 5*	Post-office, Troy, Ala	6- 9
7- 7	Postoffice, Beloit, Wis	6- 9
7-11*	Post-office, Columbus, Neb	6- 2
7-12	Quarters, San Francisco, Cal	6- 9
7-18*	Post-office, Demopolis, Ala	6- 9
7-26	Quarters, Louisville, Ky	6-16
7-27*	Post-office, Lewiston, Idaho	6-16
8-25	Buildings, etc., Hawaii	6- 9
9-10	Plans, Albany, N. Y	6- 9
11- 1	Plans, Toronto, Ont	6- 9

Water-Works.

		Noted in issue of
6-17	Franchise, Long Beach, Cal	6- 2
6-17	Pipe, etc., Buffalo, N. Y	6-16
6-18	Water-works, Coldwater, Ont	6- 9
6-20	W.-Wks. franchise, Dayton, Ky.	5-26
6-20	Meters, New York	6- 9
6-20	Pump, etc., Basic City, Va	6-16
6-20	Laying pipe, Trenton, N. J	6-16
6-21	Intake pipe, Lorain, Ohio	6-16
6-21	Reservoir, Cheyenne, Wyo	6- 2
6-21	Filter plant, Atlanta, Ga	6- 2
6-21	Water-wks., Spencerport, N. Y.	6- 9
6-22	Service mains, New York	6-16
6-23	Water pipe, Oakley, Ohio	6-16
6-23	Water system, Russel, Mass	6-16
6-27*	Pipe, New Westminster, B. C	6-16
6-27	W.-wks. materials, etc., Apache, Okla	6-16
6-28*	Pumping station, Atlantic City, N. J	6- 9
6-29	W.-wks. supplies, New York	6-16
6-30	Water-works, Cherokee, Okla	6-16
6-30	Pipe, Fort Leavenworth, Kan	6- 9
7- 1	Steel pipe, Los Angeles, Cal	5-26
7- 6	Water mains, New York	6-16
7- 8	Canal enlargement, Boise, Idaho.	5-19
7- 8*	Standpipe, Waynesboro, Va	6-16
7-11	Well, Corydon, Iowa	6-16

Sewers.

		Noted in issue of
6-17	Sewers, Salt Lake City, Utah	6- 9
6-17*	Drain tile, Deland, Ill	6- 2
6-18	Sewer system, Marble Cliff, Ohio.	6-16
6-20	Disposal system, San Jose, Cal	6-16
6-20	Sewer, Oklahoma City, Okla	6-16
6-20	Sewer, Montevideo, Minn	6-16
6-20	Sewers, Cresco, Iowa	6-16
6-20	Sewers, Bushnell, Ill	6-16
6-20*	Sewers, Washington, D. C	6- 9
6-20	Sewer system, Crete, Neb	6- 9
6-20	Sewers, Hartford, Conn	6-16
6-21	Sewers, South Bend, Ind	6- 9
6-21*	Sewer, St. Louis, Mo	5-19
6-21	Sewers, Wingham, Ont	6-16
6-21	Sewers, Lorain, Ohio	6-16
6-21	Subdrainage tunnel, New York	6-16
6-22	Sewer, Hoboken, N. J	6-16
6-22*	Sewerage extensions, etc., Freehold, N. J.	5-26
6-23*	Sewers, Avonmore, Pa	6-16
6-24	Sewers, Roanoke, Va	6-16
6-24	Sewer, South Bend, Ind	6- 9
6-24	Sewers, Lebanon, Ohio	6- 2
6-27	Sewer materials, etc., Apache, Okla	6-16
6-27	Sewers, Vermilion, S. Dak	6-16
6-27	Sewers, Knoxville, Iowa	6-16
6-27	Sewers, etc., New York	6-16
6-27*	Sewer, Hartford, Conn	6-16
6-28*	Sewers, Amarillo, Tex	6-16
6-29	Sewer, La Follette, Tenn	6-16
7- 1	Sewer, Portland, Me	6-16
7- 1	Sewage plant, West View, Pa	6- 9
7- 5*	Sewer, Plainfield, N. J	6-16
7- 5	Sewer system, Hugo, Okla	6-16
7- 6	Sewers, Struthers, Ohio	6-16
7- 6	Sewer, etc., Pella, Iowa	6-16
7- 7	Vitrified pipe, Munising, Mich	6-16
7- 7	Sewers, Fort Warren, Mass	6-16
7- 9	Drain, Boston, Mass	6-16
7-11*	Sewage tank, Charleston, S. C	6-16
7-12	Sewers, Sabetha, Kan	6-16

Streets and Roads.

		Noted in issue of
6-17	Macadam, Cambridge, Ohio	6- 9
6-17	Road, Concord, N. H	6-16
6-17	Curb, etc., Watertown, N. Y	6-16
6-17	Paving, Paris, Tex	6-16
6-18	Macadam, Delaware, Ohio	6- 2
6-18	Roads, Cleveland, Ohio	6- 9
6-20*	Grading, Canton, Ohio	5-26
6-20*	Paving, Marshalltown, Ia	6- 2
6-20	Paving, Lake City, Fla	6- 9
6-20	Paving, Madison, Wis	6- 9
6-20	Street impvt., Albany, N. Y	6-16
6-20	Road, impvt., Urbana, Ohio	6-16
6-20	Macadam, etc., Cincinnati, Ohio	6-16
6-20	Paving, Marshall, Ind	6-16
6-20	Paving, Ft. Dodge, Iowa	6-16
6-20	Road, Minneapolis, Minn	6-16
6-20	Road, Los Angeles, Cal	6-16
6-20	Walks, etc., Hartford, Conn	6-16
6-21	Paving, West New York, N. J	6-16
6-21	Road, Philadelphia, Pa	6-16
6-21	Paving, etc., St. Louis, Mo	6-16
6-21	Roads, Olympia, Wash	6-16
6-21	Road impvt., Lima, Ohio	6- 9
6-21	Paving, South Bend, Ind	6- 9
6-21	Paving, Billings, Mont.	5-26
6-22	Road, New Philadelphia, Ohio	6- 9
6-22	Paving, New York	6-16
6-23	Asphalt, repair, New York	6-16
6-23	Macadam, Oakley, Ohio	6-16
6-23	Paving, Carrollton, Ohio	5-26
6-23	Road, Springfield, Ohio	6- 9
6-24	Sidewalks, Valparaiso, Ind	6- 9
6-24	Roads, Pittsburg, Pa	6- 9
6-24	Paving, etc., Mt. Pleasant, Pa	6-16
6-24	Paving, Wapakoneta, Ohio	6-16
6-27	Paving, Albia, Iowa	6-16
6-28	Paving, etc., Port Townsend, Wash	6-16
6-28	Paving, Pottsville, Pa	6-16
6-29	Roads, Columbus, Ohio	6- 9
6-30	Road, Greenfield, Ind	6- 9
6-30	Roads, Anderson, Ind	6- 9
6-30	Sidewalks, Brazil, Ind.	6- 2
7- 5	Road, Rushville, Ind	6-16
7- 5	Roads, Princeton, Ind	6-16
7- 5	Roads, Greencastle, Ind	6-16
7- 5	Roads, Danville, Ind	6-16
7- 5	Roads, Tipton, Ind	6-16
7- 5*	Road, Burlington, N. J	6-16
7- 6	Road, Muncie, Ind	6-16
7- 6	Road, Logansport, Ind	6-16
7- 6	Paving, etc., Canton, Ohio	6-16
7- 9	Paving, Charleston, S. C	6-16
7-11*	Paving, Waukesha, Wis	6-16

Miscellaneous.

		Noted in issue of
6-16	Cement, Boston, Mass	6-16
6-17	Tile drain, Deland, Ill	6- 9
6-17*	Dredging equipment, Philadelphia, Pa.	4-28
6-17	Wharf, Angers, Que	6- 2
6-18	Levee, Memphis, Tenn	6- 2
6-18	Refuse kiln (Garbage), Boston, Mass.	5-26
6-18	Seawall, Newport, R. I	5-26
6-20	Wharf extension, Sault Ste. Marie, Ont.	5-26
6-20	Harbor impvts., Michigan City, Ind	6- 2
6-20	Wire, rope, etc., Vicksburg, Miss.	6- 2
6-20*	Steel furniture, etc., Louisville, Ky	6- 2
6-20	Ditch, Des Moines, Iowa	6- 9
6-20	Ditch, Donaldson, Minn	6- 9
6-20	Ditch, Caribou, Minn	6- 9
6-20*	Ditches, Greenwood, Miss	6- 9
6-20	Supplies, Panama	6- 9
6-20	Drainage ditch, Wheaton, Ill	6-16
6-20	Automobile number plates, Albany, N. Y	6-16
6-21	Dredging, Lorain, Ohio	6-16
6-21	Subway ducts, New York, N. Y.	6-16
6-21	Metal shelving, Washington, D. C.	6- 9
6-22	Hull, Wheeling, W. Va	6- 9
6-22	Embankment, Summit, Ill	6-16
6-23	Ditch, Fort Dodge, Iowa	6-16
6-23*	Breakwater, Newport, R. I	5-26
6-23	Castings, etc., Panama	6- 9
6-24*	Towboat, New Orleans, La	6- 2
6-24	Concrete boxes, St. Louis, Mo	6-16
6-25	Mineral oil, Cincinnati, Ohio	6- 9
6-27	Earthwork, New Orleans, La	6- 9
6-27*	Dredging, New York	6- 2
6-27*	Steel lock gates, etc., Buffalo, N. Y.	5-26
6-27*	Ladder dredge, Panama	5- 5
6-27*	Coal, New York, N. Y	6-16
6-28	Ditch, etc., Chillicothe, Mo	6-16
6-29	Wharf, Tadousac, Que	6-16
6-29*	Bulkhead, etc., New York, N. Y.	5-26
6-30	Seawall, San Francisco, Cal	6- 2
1- 1	Revetment, Memphis, Tenn	6-16
7- 2	Ditch, Hampton, Ill	6-16
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7- 5*	Channel impvts., Cleveland, Miss.	6-16
7-14*	Metal shelving, San Francisco	6- 9
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7-15	Drainage, Waco, Neb	6-16
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7-25	Trinitrotoluol, Ft. Totten, N. Y.	6- 9
7-25*	Dams and canal, Porto Rico	5-12

Examinations.

6-25	Rodman, Albany, N. Y	6- 9
6-25	Supt. of Streets, Albany, N. Y.	6- 9
6-25	Technical Asst., Albany, N. Y	6- 9
6-25	Engrg. Draftsman, Albany, N. Y.	6- 9
6-25	Foreman, Albany, N. Y	6- 9
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6-25	Chainman, Albany, N. Y	6- 9
6-25	Civil Engr., Albany, N. Y	6- 9
6-25	Chemist, Albany, N. Y	6- 9
7- 8	Electrician, New York, N. Y	6- 2
7-13	Junior Engineer, Wash., D. C.	6- 2
7-13	Asst. Engr., Wash., D. C	6- 2
7-13	Examiner, Klamath Falls, Ore	5-12

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

6-17*	Hydroelectric plant, etc., Idaho Falls, Idaho	(S.)	5-26
6-18	Refuse kiln, Boston, Mass	(S.)	5-26
6-18	Seawall, Newport, R. I	(S.)	5-26
6-20	Sewer system, Crete, Neb	(S.)	6- 9
6-21*	Bridge work, St. Louis, Mo.	(P. & S.)	5-19
6-25	Foundation, Boston Mass	(S.)	6- 2
6-27*	Steel lock gates, etc., Buffalo, N. Y.	(S.)	5-26
6-27	Piers, Pittsburg, Pa	(P. & S.)	6- 9
6-27	Light and heat system, Delaware Ohio	(P. & S.)	6- 9
6-28*	Bridge, Winnipeg, Man.	(P. & S.)	5- 5
7- 2	Crane, Vallejo, Cal	(S.)	6-16
7- 9	Drain, Boston, Mass	(S.)	6-16
7- 9	Paving, Charleston, S. C	(S.)	6-16
7- 8	Canal enlargement, Boise, Iowa,	(P. & S.)	5-19
7-25*	Dams, canal, Porto Rico.	(P. & S.)	5-12

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

CEMENT—Winnipeg, Man.—Bids probably will soon be called for 30,000 bbls. of cement. M. Peterson is Secy. Board of Control.

DRAIN—Langdon, N. Dak.—The Board of Drainage Commissioners of Cavalier County has awarded the contract for the Williston Lake drain No. 1, to A. T. LEVESCONTE of Landgon. The ditch will cost $4,000.

DREDGE—Vancouver, B. C.—Bids will be received by the Acting Secretary, Department of Public Works, Ottawa, Ont., until July 20th for the construction of a steel bow-well, twin-screw, barge-loading dredge.

WHARF.—Levis, Que.—Bids will be received until July 5 by the Acting Secretary, Department of Public Works, Ottawa, Ont., for constructing a deep water wharf at Levis. A. R. Decary is Dist. Engr., Quebec.

REVETMENT.—Memphis, Tenn.—Bids will be received until July 1 by Maj. M. L. Walker, Corps Engrs., U. S. A., Mississippi River Comn., Custom House, Memphis, for furnishing brush and poles for revetment work.

DRAINAGE—Waco, Neb.—Bids will be received by the Commissioners of Waco Drainage District until July 15, for constructing the drainage system to cost about $18,000. Grant & Letton, Engrs., F. & M. Bldg., Lincoln, Neb.

EMBANKMENT.—Summit, Ill.—Bids will be received until June 22 by the Board of Trustees, Sanitary District of Chicago, at Chicago, I. J. Bryan, Clk., for embankment and drainage of land near the Village of Summit.

WHARF.—Tadousac, Que.—Bids will be received until June 29 by the Acting Secretary, Department of Public Works, Ottawa, Ont., for constructing a wharf and approach at Tadousac Harbor. A. R. Decary, Dist. Engr., Quebec.

PIER.—Port Arthur, Tex.—The Pleasure Pier Committee will advertise for bids to construct a bridge causeway to connect with an island in the lake which it is proposed to turn into an amusement resort. Estimated cost, $80,000.

DREDGING—Milwaukee, Wis.—Contract to dredge rivers and canals in Milwaukee this year as ordered by the Board of Public Works has been let to A. T. BUES, Milwaukee, for 2½c. per cu. yd. The amount involved is about $25,000.

METAL SHELVING.—Atlanta, Ga.—Bids will be received until 3 p. m., July 15, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for metal vault shelving for the United States Post-Office and Custom-House, Atlanta.

DITCH.—Hampton, Ill.—Bids will be received until July 2 by John Misher, Chn. Drainage Comn., Hampton, for dredging a ditch in Dist. No. 4, Hampton Township, Rock Island County, about 130,000 cu. yds. Wallace Treichler, Rock Island, Ill., is Engr.

DITCH—Council Bluffs, Iowa.—Bids were received on June 9, by the Board of County Supervisors, for constructing the Pigeon Creek ditch extension. J. H. Mayne is Engr.-in-Charge. Contract was awarded to C. H. STERNBERG & SONS, Chicago, at 5.94 cts. per cu. yd.

DRAINAGE DITCH.—Wheaton, Ill.—Bids will be received until June 20, by the City Clerk for deepening and widening the South Side drainage ditch for a distance of 6,000 ft. below the septic tank, to be 8 ft. wide on bottom, and 1 ft. to 1 ft. slope. A. L. Webster is City Engr.

CEMENT.—Boston, Mass.—Bids will be received until 10 a. m., June 16, by Boston Transit Commission, B. Leighton Beal, Secy., 15 Beacon St., Boston, for furnishing and delivering 6,000 to 48,000 bbls. Portland cement for Cambridge Bridge, Connection Tunnel.

AUTOMOBILE NUMBER PLATES.—Albany, N. Y.—Bids are asked by Samuel S. Koenig, Secy. of State, until noon, June 20, for furnishing automobile number plates. There will be upwards of 35,000 pairs of metal plates with numerals and plate in contrasting colors.

*COAL.—New York, N. Y.—Bids will be received by Col. S. W. Roessler, Corps Engrs., U. S. A., Army Bldg., New York, until noon, June 27, for furnishing and trimming into U. S. dredges during the 12 months beginning July 1, 1910, about 35,000 tons (or more) of bituminous coal.

DREDGING.—Lorain, Ohio.—Bids will be received until June 21 by the Board of Public Service, as a whole or separately, for dredging in Black River, about 100,000 cu. yds. Also for making fill on city property east of Black River and north of Erie Ave. viaduct, about 15,000 cu. yds.

CRANE—Vallejo, Cal.—Bids will be received until 11 a. m., July 2, by the Bureau of Yards and Docks, Navy Dept., Washington, for one 15-ton, 3-motor, electric traveling crane at the Navy Yard, Mare Island, Cal. Specifications are on file at office of Engineering News, New York.

DAM—Newburgh, N. Y.—The Board of Water Commissioners has let the contract for completing the new dam at Washington Lake to P. P. O'HARE, of Warwick, N. Y., the lowest bidder, at $46,153, where clay for the puddle wall is obtained on the premises and $47,878 where it is obtained off the grounds.

SUBWAY DUCTS—New York, N. Y.—Bids will be received by the President, Boro. Richmond, until noon, June 21, for furnishing all the labor and materials required for constructing subway ducts and appurtenances in Jay St., from Richmond Terrace to South St., and other streets, together with all work incidental thereto.

DITCH.—Ft. Dodge, Iowa.—Bids will be received until June 23 by the joint Board of Supervisors, Wright and Webster Counties, at Ft. Dodge, for furnishing material and constructing ditch No. 46, Wright County and ditch No. 92, Webster County, requiring 3,700 ft. 20-in. tile and 700 ft. 24-in. tile. J. L. Hanrahan is Audr. Webster County, at Ft. Dodge.

CANAL.—Ottawa, Ont.—The Dominion Government on June 9 awarded the contract for No. 4 District of the Trent Valley Canal, to the south of Campbellford, to HANLY, QUINLAN & ROBERTSON, of Toronto, Ont., and Montreal, Que., amounting to over $1,000,000. The same contractors were awarded last month the contract for District 6, amounting to $600,000.

CONCRETE BOXES.—St. Louis, Mo.—Bids will be received until noon, June 24, by the Board of Public Improvements, for furnishing and delivering at City Pipe Yard, Kingshighway and Sager Road, 3,000 reinforced interlocking concrete boxes. Specifications and form of contract may be obtained upon application at the office of the Water Commissioner, Room 312, New City Hall. Estimated cost, $25,000.

DITCH, ETC.—Chillicothe, Mo.—Bids will be received until June 28, at the office of A. W. Shelton, Clk., County Court, for constructing a main ditch and two laterals, including five steel bridges, three 30-ft. and two 20-ft. spans, six farm crossings and a dam in Drainage Dist. No. 15. Main ditch is to be 15,420 lin. ft., laterals 7,270 lin. ft., with 7,369 cu. yds. in main ditch. Thos. Hurst is Engr. and County Surveyor.

RIPRAP—Plymouth, Mass.—Bids were received by Lieut.-Col. Edw. Burr, Corps Engrs., U. S. A., Boston, on June 6 for riprap stone in dike on Long Beach, Plymouth Harbor, Mass., as follows: (per ton of 2,000 lbs.): Thomas Fitzgibbons, Beverly, Mass., $2.94; Lawler Bros., 16 City Sq., Charlestown, Mass., $3.44; Rowe Bros. Co., Richmond, Me., $3.97; the Breakwater Co., 1222 Arcade Bldg., Philadelphia, Pa., $2.43.

BLASTING—San Francisco, Cal.—The Board of Harbor Commissioners on June 2 rejected all the bids that were submitted for the drilling and blasting of the submerged rock underlying and extending to either side of Pier 54. The bids were rejected on the ground that they were too high. The lowest bid was $18,642, and the highest $25,600. Engineer Barker's estimate of the cost was $11,500. New bids will be received until 9 a. m., June 16. W. B. Thorpe, Secy.

*CHANNEL IMPROVEMENTS.—Cleveland, Miss.—Bids will be received by the Board of Drainage Commissioners, of Bolivar County, Miss., for the improvement of the channel of the Bogue Phalia, until 2 p. m., July 5, at the office of Sillers & Owen, Attorneys, Cleveland, Miss.; the proposed improvement is nine miles in length, and the construction requires the excavation of approximately 1,155,000 cu. yds. of earth. Plans and specifications will be on file in the office of Engineering News, New York.

PIERS—Philadelphia, Pa.—At the request of the Department of Wharves, Docks and Ferries an ordinance has been introduced in Select Council authorizing the transfer of $195,000 appropriated for the acquiring of waste lands along the Delaware and Schuygill Rivers and the improvement of the water front and channels to other items. With $192,000 of this money the Department stated that it would proceed with the construction of new piers at the foot of Dock St. as authorized by the ordinance of March 12, 1909, and above Vine St., as authorized in the ordinance of Dec. 2, 1908. The balance of the money is to be used for repairs to the Race St. pier.

PIER.—New York, N. Y.—Bids were received on June 6 by the Department of Docks and Ferries (Contract No. 1147), for furnishing all the labor and materials required for preparing for and building a new pier at the foot of Oliver St.; also for preparing for and building a new bulkhead platform westerly from said pier, between James Slip and Oliver St., East River, Boro. Manhattan. Bids were as follows: Butler Bros., 1170 Broadway, $28,030; Merrill-Ruckgaber Co., 50 Church St., $39,265; Jenks-Asserson, 59 Pearl St., $30,913; E. DeVe Tompkins, 81 East 125th St., $34,160; Phoenix Construction Co., 13-21 Park Row, $30,434; C. B. Spearin, 90 West St., $27,597; N. Y. State Const. Co., 80 Broadway, $29,916.

GRADE RAISING.—Galveston, Tex.—The grade raising estimate for May under the GOEDHART & BATES contract with the city is 87,726 cu. yds. at 18½ cts., or $16,229.31. This leaves a balance yet to be placed under tois contract of 58,421 cu. yds., which at 18½ cts. will be $10,808. The amount in the retention fund and to be paid when the contract has been completed is $16,000. This makes a total yet to be paid by the city under the Goedhart & Bates contract of $26,808. The total city contract is as follows: 10,601,400 cu. yds. sand filling, at 18½ cts., $1,961,259; 4,348 yds. soil, at 30 cts., $1,304; total, $1,962,563; less payments including May estimate, $1,935,755; balance to be paid, $26,808. It is estimated that by July 1 the Goedhart & Bates contract with both the city and county will have been completed.

DREDGING—Trenton, N. J.—The Inland Waterway Commission received bids on June 7 for dredging two sections of the inland waterway. The bids were as follows: Between Hereford's and Townsend's inlets, a distance of about ten miles, the dredging not to be continuous, however, Rickards Dredging Co., of Philadelphia, 16 cts. per cu. yd., 30,000 cu. yds. to be excavated per month; Hill Dredging Co., of Atlantic City, 13¼ cts. per cu. yd., the work to be completed in two and a half months.

Between Main Marsh and Oyster Creek thoroughfares, a distance of 3½ miles; Standard Engineering Co., of New York, 10.35 cts. per cu. yd., work to be completed in ten months; Hill Dredging Co., Atlantic City, 10⅝ cts. per cu. yd., four months; Rickards Dredging Co., Philadelphia, 12 cts. per cu. yd., ten months.

DRAINAGE DISTRICT—Galveston, Tex.—Galveston County is to have a new drainage district and will then have one of the most complete systems in the state. The County Commissioners will give a hearing June 23, following which an election will be held on the tax question. It is understood all the taxpayers are in favor of the plan. E. N. Sanctuary, Engr., estimates the cost at $45,000. The estimate showed that approximately 299,500 ft. of drainage ditches would have to be dug, at an approximate yardage of 254,827 sq. yds. It was estimated that the dirt would be excavated at a cost of 14 cts. per cu. yd, making a total of $35,678. Total cost will be about $45,000. The new drainage district lies between Dickinson and Texas City Junction, on both sides of the Galveston, Houston & Henderson R. R. It embraces 16,000 acres of land which is always submerged after any considerable rain.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 266.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 14th, 1910.—Sealed proposals will be received in this office until 3 o'clock p. m. on the 27th day of July, 1910, and then opened, for the construction, complete (including plumbing, gas-piping, heating apparatus, electric conduits and wiring), of the United States post-office at Lewiston, Idaho, in accordance with drawings and specifications, copies of which may be obtained from custodian of site at Lewiston, Idaho, or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Archittct.

BRIDGE.

Columbus, Ga.

Notice is hereby given that sealed proposals will be received at the office of the Superintendent of Public Works of the City of Columbus, Georgia, until the 18th day of July, 1910, at 12 o'clock M., for the building of a Concrete-Steel Arch Bridge (Melan System) over the Chattahoochee River at Dillingham Street, and will be publicly opened and read at that time.

Plans and specifications may be seen, and forms of proposal and contract may be obtained at the Office of the Superintendent of Public Works, and also at the Office of the Concrete-Steel Engineering Company, Park Row Building, New York, N. Y. Copies of the Specifications and Plans may be obtained upon making a deposit of $20.00, said deposit to be returned upon return of the Plans and Specifications.

Each proposal must be accompanied by a certified check for ten thousand dollars ($10,000.00), made payable to the order of J. S. Mathews, Treas., to be forfeited to the City of Columbus as liquidated damages, in case of failure on the part of the bidder to enter into a contract for the execution of the work, and furnish satisfactory surety bond, as hereinafter stipulated. The check will be returned to the successful bidder as soon as the contract is executed, and to the unsuccessful bidders after the award is made.

A bond to the amount of 50 per cent. of the total contract price with a satisfactory surety company, will be required for the faithful performance of the work, said bond to remain in force for one year after the final completion and acceptance of the bridge.

Bidders must acquaint themselves with the plans, drawings and specifications for the work, and by personal examination satisfy themselves of the nature, character and location of the proposed work, that no misunderstanding may arise in regard to the character and quantity of the work.

No information derived from maps, profiles, plans, specifications, or from the Engineer or his assistants, shall in any way relieve the Contractor from any risk, or from fulfilling any and all of the terms of the contract and specifications.

The blank form of proposal attached to the specifications shall be used in making out bid. The price must be written in the proposal and also stated in figures, and any proposal not in accordance with these instructions or not on the blank furnished will be rejected. If any discrepancies occur between the written and figured prices, those most favorable to the City of Columbus, Ga., will be taken as the intention of the bidder.

Proposals will be entertained only from parties who have at their command the necessary capital and plant for properly doing such work.

No permission will be given for the withdrawal of any proposal.

The person or persons to whom the contract may be awarded will be required to execute the contract, with sureties within ten (10) days from the date of service of notice to that effect;. and in case of failure or neglect to do so, he or they will be considered as having abandoned it.

The right is reserved to accept any proposal, or to reject any or all proposals.

Columbus, Ga., May 9th, 1910.

W. C. CAMPBELL,
Supt. of Public Works.

SEWER.

Hartford, Conn., June 14, 1910.

Sealed proposals will be received by the Board of Contract and Supply of the City of Hartford, Conn., at the Mayor's Office, City Hall, up to 11 o'clock a. m. of the 27th day of June, 1910, at which time bids will be opened, for the construction of approximately 6,000 lineal feet of concrete sewer ranging in diameter from 54 inches to 84 inches, to be known as the East Side Intercepting Sewer.

Each proposal must be accompanied by a certified check for $2,500, made payable to the City Treasurer of Hartford; and a satisfactory surety bond of fifty (50) per cent. of the contract price will be required of the successful bidder.

Plans and specifications may be examined and blank forms of proposal obtained at the City Engineer's Office after June 18th.

Right is reserved to reject any or all bids not deemed to the advantage of the City.

Board of Contract and Supply
By JOSEPH BUT
Secretary.

Situations Wanted

STRUCTURAL and Hydraulic Engineer, Swedish (26), technical training, desires position; salary no object if practical knowledge can be acquired. Address "X. B. 24," Engineering News, New York. 24-3t

Situations Open

WANTED—A Highway Bridge and Structural Engineer to take entire charge of office, one who has had considerable experience in designing and detailing steel highway bridges and structural iron work. Man must also be an accurate and quick estimator. Man preferred who has had entire charge of such work for at least two or three years. Must be graduate engineer and a hustler. Good chance to advance to the right man. Applicant must give full account of experience in detail, stating age, salary desired and when he could report for work. Address "Z. B. 24," Engineering News, New York. 24-2t

WANTED—First-class structural shop detail draftsmen and checkers immediately. Several months' work. State age, experience and salary expected. BARBER & ROSS, Washington, D. C. 24-1t

FOR SALE

FOR SALE

Belt Driven

Air Compressor

Sullivan Class WH2, 2-Stage Belt-Driven Air Compressor, 18 in. x 11 in. x 16 in.; shop number 654; capacity, 634 cu. ft. free air per minute. Will guarantee to be in good order.

PRICE, $1,000.00.

Pickett

916 Pennsylvania Bldg., Philadelphia, Pa.

Gasoline Motor Car

FOR SALE

Seating capacity 24. Been in operation only six months. Made by the Sheffield Car Co., Three Rivers, Michigan. Reason for selling, electrifying system. Car cost $5,500 at factory. Can be bought at a bargain.

EL RENO INTERURBAN RAILWAY CO.,
El Reno, Okla. 24-1t

FOR SALE.

45-ton Bucyrus shovel, boom type, late number, 1½-yard dipper; 26 diamond frame western cars, 3-ft. gage; three 9 × 14 Vulcan dinkies; 150 tons of 40-lb. rail, all guaranteed condition; to move quick; $13,000; will divide outfit; full circle 1½-yard Vulcan shovel, $4,000; to move quick No. 1 Thew, 1-yard dipper full circle, first class condition, $2,900. 1028 Andrus Bldg., Jones Purchasing Agency, Minneapolis. 24-1t

FOR SALE.

Hayward Land Dredge

With two Orange Peel Buckets, ¾-yard and 1-yard; ready to use.

HARRISON & MANSFIELD
220 Broadway, N. Y. City. 24-1t

FOR SALE.

One Cameron Vertical Sinking Pump

size 24 × 12 × 16, capacity over one million gallons daily; one of the largest vertical pumps ever built. Only used a short time in pumping out a mine. Price, $600.00 f. o. b. cars.

LEONARD & McCOY,
24-1t 161 Washington St., N. Y. City.

PLAIN LETTERING

By PROF. HENRY S. JACOBY

Most comprehensive book on this subject. Contains standards of U. S. Engineer Corps, U. S. Geological and Geodetic Surveys, and Mississippi River Commission.

Cloth, 10 x 7 inches: 82 pages. Price $3.00.